

Appendix C-4 IPA Program Detail (version 2, 09/10/2013)

Program Name	Accelerate Group, LLC and Citizens Utility Board (CUB) – CUB Energy Saver															
Program Description	CUB Energy Saver is a free online rewards program that incents residential households to save energy through a combination of information, incentives and community engagement. The program leverages behavioral and marketing best practices by encouraging opt-in web engagement and rewarding customers that save energy.															
Program Duration	June 2014 through May 2017, 3-year program															
Collaboration	None															
Delivery Strategy	The Energy Saver Is designed to encourage participation by local communities with community residents or through competitions against other communities for energy usage usage reductions. This includes on-the-ground marketing, reward partnership development, energy saving team development, custom-branded community and team pages, partner incentives and ongoing marketing support.															
Target Market	This program targets residential single-family and multi-family customers in ComEd's service territory. All such targeted customers taking delivery service from ComEd are eligible for this program regardless of their choice of supplier.															
Marketing Strategy	<p>The Energy Saver is targeting markets with built-in social legitimacy, which is an important pre-requisite for effective engagement. Participation in the program comes from a combination of direct and community marketing. Direct marketing channels, including mail and e-mail, encourage customers to enroll online for savings recommendations and reward points to earn discounts at top national and local stores. Community marketing strategies include on-the-ground community outreach, and developing partnerships with local retailers and creating custom-branded community and team pages.</p> <p>The Accelerate Group, LLC (the program administrator) will work with CUB and leverage five of its outreach staff to conduct outreach events and market the Energy Saver Program at CUB events..</p> <p>The Energy Saver outreach team will focus on increasing the use of digital marketing and community based outreach beyond the traditional direct mail strategies used by other customer engagement programs to spread awareness of the program and increase participation.</p>															
Eligible Measures	<p>The program focuses on active, opt-in web engagement, with rewards and incentives given to customers that save energy.</p> <p>The types of measures undertaken by customers are primarily behavioral in nature, and can include turning off lights, adjusting air conditioning temperature setpoints, and turning off/unplugging electronic equipment when not in use. Given the design of the program and the method of measuring energy savings (which relies on customer's monthly energy consumption versus a control group), the breadth of measures actually undertaken is not known.</p>															
Program Targets	<table> <thead> <tr> <th colspan="5">Participation Levels</th> </tr> <tr> <th></th> <th>PY7</th> <th>PY8</th> <th>PY9</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Total Incremental</td> <td>10,000</td> <td>10,000</td> <td>10,000</td> <td>30,000</td> </tr> </tbody> </table>	Participation Levels						PY7	PY8	PY9	Total	Total Incremental	10,000	10,000	10,000	30,000
Participation Levels																
	PY7	PY8	PY9	Total												
Total Incremental	10,000	10,000	10,000	30,000												

Program Name	Accelerate Group, LLC and Citizens Utility Board (CUB) – CUB Energy Saver				
Annual Savings Targets					
		PY7	PY8	PY9	Total
Gross MWh		5,970	11,940	17,910	35,820
Net MWh		5,970	11,940	17,910	35,820
Gross MW		2.0	4.0	6.0	12.0
Net MW		2.0	4.0	6.0	12.0
Program Budget					
		PY7	PY8	PY9	Total
Administration		\$100,000	\$100,000	\$100,000	\$300,000
Implementation		\$150,000	\$275,000	\$375,000	\$800,000
Incentives		\$0	\$0	\$0	\$0
Marketing and Other		\$150,000	\$225,000	\$300,000	\$675,000
Total		\$400,000	\$600,000	\$775,000	\$1,775,000
Cost-Effectiveness Results					
		Test Results			
		TRC		1.72	
		UCT		1.74	
		CCE		\$0.045	

Appendix C-4 IPA Program Detail (version 2, 09/10/2013)

Program Name	Conservation Services Group (CSG) – Home Energy Services for Electric Space Heat Customers										
Program Description	CSG will provide assessments and direct installation of energy saving measures with its own Energy Advisors based upon the Home Energy Savings (HES) program design. The visit generally starts with the Energy Advisor reviewing with the customer the goal of the visit and explaining the audit process. The Energy Advisor will also provide information about direct install measures the customers may be eligible to receive during the first visit.										
Program Duration	June 2014 through May 2017, 3-year program										
Collaboration	None										
Delivery Strategy	CSG will identify clusters of single family electric space heat customers in various communities. CSG's staff will work with homeowner associations, attend associations' board meetings, and provide collateral materials to educate on the program offerings. CSG may also work with participating contractors to provide a "bulk purchase" type of offer where program pricing is lowered if a certain number or percentage of the homeowners agree to proceed with work.										
Target Market	This program targets residential single-family electric space heat customers in ComEd's service territory. All such targeted customers taking delivery service from ComEd are eligible for this program regardless of their choice of supplier.										
Marketing Strategy	CSG recommend a targeted marketing approach that complements the ComEd brand and message, and leverages the cross marketing of other energy efficiency programs (that fall under the Smart Ideas umbrella, such as the HES Program) and consumer behavior patterns. The objective is to move consumers along their decision-making continuum – a process supported by research, particularly when it involves products and services that are socially responsible. This continuum begins with awareness of a product or service and/or social issue. It quickly moves on to understanding the implications of certain behaviors, being willing to change, and then sustaining that change over time. This approach will build on past work, chart new courses for the future, and ultimately achieve the goals for awareness and participation to attain program objectives.										
Eligible Measures	The assessment will be offered to customers of the Home Energy Savings (HES) Program and will include the direct installation of measures as follows: CFLs, low-flow showerheads, faucet aerators, water heater pipe insulation, and water heater thermostat setback. Eligible shell measures identified at the time of the assessment will be offered to customers and will include: air sealing, attic and wall insulation and equipment replacement (ductless mini-split heat pumps). Customers who chose to implement shell measure projects will receive an incentive consistent and/or comparable with that available to single family customers in the HES Program. The incentive will be offered as an instant rebate deducted from the customer's invoice for the project.										
Program Targets	<p>Participation Levels</p> <table> <thead> <tr> <th></th> <th>PY7</th> <th>PY8</th> <th>PY9</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Total Homes</td> <td>300</td> <td>300</td> <td>300</td> <td>900</td> </tr> </tbody> </table>		PY7	PY8	PY9	Total	Total Homes	300	300	300	900
	PY7	PY8	PY9	Total							
Total Homes	300	300	300	900							

Appendix C

Program Name	Conservation Services Group (CSG) – Home Energy Services for Electric Space Heat Customers					
		Annual Savings Targets				
		PY7	PY8	PY9	Total	
	Gross MWh	2,446	2,446	2,446	7,337	
	Net MWh	2,017	2,017	2,017	6,051	
	Gross MW	1.0	1.0	1.0	3.0	
	Net MW	1.0	1.0	1.0	3.0	
Program Budget						
		PY7	PY8	PY9	Total	
	Administration	\$0	\$0	\$0	\$0	
	Implementation	\$1,101,724	\$1,101,724	\$1,101,724	\$3,305,172	
	Incentives	\$465,371	\$465,371	\$465,371	\$1,396,113	
	Marketing and Other ¹	\$0	\$0	\$0	\$0	
	Total	\$1,567,095	\$1,567,095	\$1,567,095	\$4,701,285	
Cost-Effectiveness Results						
			Test Results			
		TRC	1.23			
		UCT	2.82			
		CCE	\$0.042			

¹ Marketing costs are embedded in the Implementation Costs for this program

Program Name	Home Energy Reports
Program Description	<p>The Home Energy Report (H.E.R), currently an opt-out only program, provides select residential customers with information on how they use energy within their households on a monthly basis. The customer's home energy usage is compared to the average usage of households that are geographically located in close approximation of one another and have similar characteristics such as dwelling, heating type and size.</p> <p>ComEd intends to expand this program from the current 340,000 residential customers to 1,500,000.</p>
Program Duration	June 2014 through May 2017, 3-year program
Collaboration	None
Delivery Strategy	<p>This program involves delivery of tailored energy usage reports to participating customers, typically on a bi-monthly basis. These reports provide comparisons of the participant's consumption against a demographic peer group, and provides tips and guidance regarding how the participant can reduce energy use. The Home Energy Reports program will contract with a third-party implementation vendor through an RFP selection process to administer this program.</p> <p>As the program expands, additional call center personnel will be trained to field customer questions and manage program opt-out requests.</p>
Target Market	<p>This program targets residential single-family and multi-family customers in ComEd's service territory. All such targeted customers taking delivery service from ComEd are eligible for this program regardless of their choice of supplier.</p>
Marketing Strategy	<p>Recent research indicates that information campaigns are not sufficient enough on their own to get individuals to change their behavior. Behavioral marketing is defined as using human biases that are important for making decisions and incorporating those biases into marketing campaigns to make them more effective. The Home Energy Reports use behavioral marketing by focusing on social norms.</p> <p>The overall marketing strategy for Home Energy Reports will largely operate as continued education and awareness of energy efficiency, because this program is conducted on an opt-out basis. Marketing will occur through promotion of energy efficiency offerings through tips. Customers participating in the program will be reached through messages on their customized reports, digital media and additional targeted mailings based on energy reduction needs.</p> <p>Key marketing messaging for this program are: (1) reduce your energy usage – check out more <i>Smart Ideas</i> at www.ComEd.com; (2) become a more informed user of energy and how easily you can save money on your monthly expenses; (3) join in and be amongst your peers/neighbors who may be more energy efficient; (4) being more energy efficient and saving is as simple as slightly changing an existing habit or pattern; and (5) do not waste energy while you're away – set a programmable thermostat and start saving.</p>
Eligible Measures	<p>The Home Energy Report provides residential customers with information on how they use energy within their households on a monthly basis. The report displays usage analytic such as a last 2 months neighbor comparison, a 12 month neighbor comparison, a personal comparison that illustrates the customer's usage from the same time last year and specific energy tips that are based on the characteristics and usage of the household.</p> <p>The types of measures undertaken by customers are primarily behavioral in nature, and can include turning off lights, adjusting air conditioning temperature setpoints, and turning off/unplugging electronic equipment when not in use. Given the design of the program and the method of measuring energy savings (which relies on customer's monthly energy consumption versus a control group), the breadth of measures actually undertaken is not known.</p>

Program Name	Home Energy Reports				
Program Targets	Participation Levels				
		PY7	PY8	PY9	Total
	Total Customers	1,500,000	1,500,000	1,500,000	4,500,000
Annual Savings Targets					
		PY7	PY8	PY9	Total
	Gross MWh	271,825	337,751	351,498	961,074
	Net MWh	271,825	337,751	351,498	961,074
	Gross MW	79	99	103	281
	Net MW	79	99	103	281
Program Budget					
		PY7	PY8	PY9	Total
	Administration	\$174,761	\$180,004	\$185,404	\$540,169
	Implementation	\$13,670,833	\$13,670,833	\$13,670,833	\$41,012,499
	Incentives	\$0	\$0	\$0	\$0
	Marketing and Other	\$0	\$0	\$0	\$0
	Total	\$13,845,594	\$13,850,837	\$13,856,237	\$41,552,668
Cost-Effectiveness Results					
			Test Results		
	TRC		1.90		
	UCT		1.92		
	CCE		\$0.039		

Appendiz C-4 IPA Program Detail (version 2, 09/10/2013)

Program Name	Shelton Solutions Inc. - Energy Stewards										
Program Description	The Energy Stewards Program is designed to provide information and awareness around energy efficiency. This program is designed to educate, implement, track, and reward. Participants will sign up for the program and Energy Stewards will tell the participants what to do, show them how they are progressing and leave the rest up to the participants.										
Program Duration	June 2014 through May 2015, 1-year program										
Collaboration	None										
Delivery Strategy	Customers will be able to sign up for participation in the program at events, presentations, and seminars. There will also be a dedicated website with program information where customers can sign up for participation in the program. Fax and mail-in applications will also be accepted. The Energy Stewards Program has five (5) steps: (1) participants sign up for the program (giving the program access to their energy consumption information) agreeing to try to save 500 kWh in a year; (2) the program will provide energy consumption advise and education; (3) the program will monitor the energy consumption of the participants; (4) the program will make participants aware of their progress; and (5) the program will reward participants to reach their goal.										
Target Market	This program targets residential single-family and multi-family customers in ComEd's service territory. All such targeted customers taking delivery service from ComEd are eligible for this program regardless of their choice of supplier.										
Marketing Strategy	Customer will be recruited for this program using a grass roots campaign. This program hinges on the fact that information disseminated via faith-based (and community-based) avenues is typically well received and acted upon. The program will recruit customers through church announcements, bulletins and direct contact with church and community leaders. The marketing and outreach approach will be modified as the program progresses. The Energy Steward Program is an awareness program. ComEd customers will be invited to participate in a self-competition. Participants will compete against themselves. The program challenges participants to do better. Energy use reduction information is shared with participants, but ultimately, it is up to the participants to decide how to reduce consumption.										
Eligible Measures	No particular measures will be installed through program. The types of measures undertaken by customers are primarily behavioral in nature, and can include turning off lights, adjusting air conditioning temperature setpoints, and turning off/unplugging electronic equipment when not in use. Given the design of the program, the breadth of measures actually undertaken is not known.										
Program Targets	<p>Participation Levels</p> <table> <thead> <tr> <th></th> <th>PY7</th> <th>PY8</th> <th>PY9</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Total Customers</td> <td>3,000</td> <td>0</td> <td>0</td> <td>3,000</td> </tr> </tbody> </table>		PY7	PY8	PY9	Total	Total Customers	3,000	0	0	3,000
	PY7	PY8	PY9	Total							
Total Customers	3,000	0	0	3,000							

Program Name	Shelton Solutions Inc. - Energy Stewards				
	Annual Savings Targets				
		PY7	PY8	PY9	Total
	Gross MWh	1,500	0	0	1,500
	Net MWh	1,230	0	0	1,230
	Gross MW	0	0	0	0
	Net MW	0	0	0	0
	Program Budget				
		PY7	PY8	PY9	Total
	Administration	\$0	\$0	\$0	\$0
	Implementation	\$40,000	\$0	\$0	\$40,000
	Incentives	\$150,000	\$0	\$0	\$150,000
	Marketing and Other	\$10,000	\$0	\$0	\$10,000
	Total	\$200,000	\$0	\$0	\$200,000
	Cost-Effectiveness Results				
			Test Results		
		TRC	1.97		
		UCT	0.49		
		CCE	\$0.146		

Program Name	Small Business Energy Services (SBES)
Program Description	Provide small business customers with cost-effective turn-key energy efficiency retrofit services. Generating energy savings by direct installation of low-cost energy efficient products and also providing incentives for more capital-intensive measures to maximize energy efficiency opportunities.
Program Duration	June 2014 through May 2017, 3-year program
Collaboration	Program will be jointly delivered with the local gas companies People's Gas, North Shore Gas and Nicor Gas.
Delivery Strategy	<p>SBES will be promoted through multiple channels including trade allies, program outreach staff, and key partners. Trade allies will be the primary means of promoting SBES and obtaining participants. ComEd will support the trade allies by providing formal marketing/outreach guidance and co-branded promotional materials. The trade allies role will expand to conduct and collect all of the customer information. They will also complete the direct installs selected by the customer and arrange to install the retrofit measures that the customer would like to complete.</p> <p>Furthermore, trade allies will be given extensive marketing support, which will make sure that they have the needed materials and messaging needed to advertise the program.</p> <p>Additionally trade ally support will include establishing, maintaining, and leveraging relationships with local business groups, media, and government organizations to promote program awareness and drive participation. Joint outreach and marketing initiatives conducted with key partners will be part of a cost-effective means of reaching large numbers of potential SBES participants. These partnerships include ComEd External Affairs Managers (EAMs), Chambers of Commerce, small business organizations, and other ComEd Smart Ideas implementing contractors.</p> <p>Lastly, the SBES Geo-Targeted program will be offered to select towns to assist with Energy Efficiency awareness and program recruitment. This effort will be based upon the model established and vetted with Pilot I and Pilot II implemented by ComEd in 2013. The selected towns will be engaged through local media, local governments, and other local community organizations; all SBES eligible customers will receive emails and postcards. SBES trade allies will conduct in-person outreach to answer customer questions and conduct energy assessments.</p>
Target Market	This program is designed for small business customers. All targeted customers taking delivery service from ComEd are eligible for the program regardless of their choice of supplier.
Marketing Strategy	<p>The marketing strategies includes the following:</p> <ul style="list-style-type: none"> • Supplement the direct-install efforts of the implementation contractor by developing trade ally relationships in local communities that can deliver education, training and EE technologies to small C&I customers • Promote free subscription to Energy Insights Online to cultivate energy usage understanding and energy efficiency mentality • Educate and leverage existing resources (e.g., trade allies, ComEd external affairs managers, call center) to their greatest potential to achieve broad-based awareness at the lowest possible cost <p>Materials and tactics for trade ally marketing would include program materials and marketing collateral, sale tools, outreach, and training. Materials and tactics for marketing to customers would include direct mail, telemarketing, outreach events, newsletters, bill insets, and printed collateral.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Simple, easy and FREE energy efficiency measures are available to your business through ComEd's Smart Ideas Small Business Energy Services incentive • These Energy Efficiency technologies can help you lower your energy bill

Program Name	Small Business Energy Services (SBES)				
Program Targets	Participation Levels				
		PY7	PY8	PY9	Total
Total Sites	16,000	16,000	16,000	16,000	48,000
Annual Savings Targets					
	PY7	PY8	PY9	Total	
Gross MWh	105,263	140,000	175,789	421,052	
Net MWh	100,000	133,000	167,000	400,000	
Gross MW	29.7	39.6	49.7	119.0	
Net MW	28.3	37.6	47.2	113.1	
Program Budget					
	PY7	PY8	PY9	Total	
Administration	\$174,761	\$180,004	\$185,404	\$540,169	
Implementation	\$20,994,187	\$29,049,773	\$37,350,404	\$87,394,364	
Incentives	\$4,041,618	\$4,122,450	\$4,204,899	\$12,368,967	
Marketing and Other	\$2,332,687	\$3,227,753	\$4,150,045	\$9,710,485	
Total	\$27,543,253	\$36,579,980	\$45,890,752	\$110,013,985	
Cost-Effectiveness Results					
			Test Results		
TRC			2.32		
UCT			3.58		
CCE			\$0.025		

Program Name	One Change – Small Commercial Power Strip Program
Program Description	One Change is a small commercial program that will offer two TrickleStar power strips directly to targeted small business customers that have the highest plug loads and standby times. The participants will be identified using a targeting analysis approach.
Program Duration	June 2014 through May 2015, 1-year program
Collaboration	None
Delivery Strategy	<p>One Change utilizes a community-based social marketing (CBSM) approach to delivery this program that relies on personally delivering and installing sponsored items and messaging directly to utility customers. CBSM uses simple actions like installing a power strip to stimulate conversations and information sharing between neighbors, colleagues and friends. This purposely builds momentum at the community level. It also breaks down barriers and changes recipients' self perceptions. Taking the first simple step makes them increasingly likely to make informed choices in the future and to adopt additional measures. Key targeted delivery include:</p> <ul style="list-style-type: none"> • Review already analyzed utility data, completed in current program year • Identification of up to three market research questions to drive future savings opportunities to be carried to the door by One Change in targeted communities • Delivery of TrickleStar advanced power strips to each targeted business in the targeted communities • Co-marketing of up to three follow on offer collateral items (to be supplied by ComEd or desired vendor) • Solicitation and tracking via One Change iChange app of three follow on insights to provide on offer targeting insights • Wrap up, strategic analysis of data collected at door to make insights readily shareable to other vendors in ComEd's portfolio with a goal of driving cost effective portfolio.
Target Market	Small business at or below 100 kW peak demand
Marketing Strategy	<p>A targeting methodology will be used to determine the most appropriate areas and businesses for targeting with smart power strips. One Change plans to target businesses in zip codes that have higher plug loads and longer standby timers by using business information available in a current third party commercial data set. This analysis will</p> <ul style="list-style-type: none"> • Find the geographic areas and pinpoint the business types best suited to the targeted One Change engagement effort • Identify the business owners or key decision makers most appropriate for targeted personal conversation using purchased third party databases and community engagement tactics. • Review ComEd's current programs to refine the secondary ask after the power strip installation • Identification of up to three market research questions to drive future savings opportunities to be carried to the door by One Change in targeted communities. <p>One Change will then utilize a community-based social marketing approach and numerous traditional marketing activities designed to engage the public, generate awareness and interest and promote sponsor messaging. In cooperation with ComEd this program aims to:</p> <ul style="list-style-type: none"> • Educate commercial customers on the benefits and uses of power strips • Raise awareness of energy efficiency and Energy Star program • Encourage future purchase of energy efficient, Energy Star products • Engage business customers in a positive manner • Increase the likelihood that targeted customers will adopt additional energy efficiency measures <p>Key components of the marketing strategy may include:</p>

Program Name	One Change – Small Commercial Power Strip Program																																			
	<ul style="list-style-type: none"> • Earned Media - In cooperation with ComEd, seek positive media coverage of the program as a means of promoting its objectives and establishing credibility within the community • Paid Media - Where appropriate, make strategic advertising purchases in local newspapers • Direct Mail Advertising – To increase receptivity to a face-to-face visit, use targeting research to develop a mailing that notifies customers of the coming visit • Community Engagement – Leverage relationships in the business community to mobilize business, and community leaders to speak with their constituents about the coming campaign. • Business to Business engagement – Door-to-door promotion is a core element of the success of this program. Field representatives are recruited and trained by One Change to act as agents of change in conversations with consumers and businesses at the doorstep. One Change representatives focus on obtaining commitment to take the first simple actions and inform businesses of the benefits of installing the measures • Web, social and electronic media – Feature ComEd utility program on One Change corporate website. Approved sponsor messages and other ComEd energy efficiency programs can also be highlighted and cross-promoted. 																																			
Eligible Measures	2 TrickleStar power strips																																			
Program Targets	<p>Participation Levels</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>PY7</th> <th>PY8</th> <th>PY9</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Total Strips</td> <td>50,000</td> <td>N/A</td> <td>N/A</td> <td>50,000</td> </tr> </tbody> </table> <p>Annual Savings Targets</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>PY7</th> <th>PY8</th> <th>PY9</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Gross MWh</td> <td>5,130</td> <td>N/A</td> <td>N/A</td> <td>5,130</td> </tr> <tr> <td>Net MWh</td> <td>4,360</td> <td>N/A</td> <td>N/A</td> <td>4,360</td> </tr> <tr> <td>Gross MW</td> <td>0.54</td> <td>N/A</td> <td>N/A</td> <td>0.54</td> </tr> <tr> <td>Net MW</td> <td>0.46</td> <td>N/A</td> <td>N/A</td> <td>0.46</td> </tr> </tbody> </table>		PY7	PY8	PY9	Total	Total Strips	50,000	N/A	N/A	50,000		PY7	PY8	PY9	Total	Gross MWh	5,130	N/A	N/A	5,130	Net MWh	4,360	N/A	N/A	4,360	Gross MW	0.54	N/A	N/A	0.54	Net MW	0.46	N/A	N/A	0.46
	PY7	PY8	PY9	Total																																
Total Strips	50,000	N/A	N/A	50,000																																
	PY7	PY8	PY9	Total																																
Gross MWh	5,130	N/A	N/A	5,130																																
Net MWh	4,360	N/A	N/A	4,360																																
Gross MW	0.54	N/A	N/A	0.54																																
Net MW	0.46	N/A	N/A	0.46																																

Program Name	One Change – Small Commercial Power Strip Program				
	Program Budget				
		PY7	PY8	PY9	Total
	Administration	\$281,190	N/A	N/A	\$281,190
	Implementation	\$113,400	N/A	N/A	\$113,400
	Incentives	\$720,500	N/A	N/A	\$720,500
	Marketing and Other	\$151,910	N/A	N/A	\$151,910
Total		\$1,267,000	N/A	N/A	\$1,267,000
	Cost-Effectiveness Results				
		Test Results			
	TRC	1.05			
	UCT	1.06			
	CCE	\$0.0523			

Program Name	PECI – AirCare Plus Small Commercial HVAC Tune-Up Program
Program Description	AirCare Plus is a direct install HVAC tune-up program that focuses on packaged rooftop units (RTU) which are poorly maintained and operating inefficiently. Trade allies will utilize a custom analytical tool that will populate software with field data and perform fault detection and diagnostics to guide technicians through the service.
Program Duration	June 2014 through May 2017, 3 year program
Collaboration	None
Delivery Strategy	<p>PECI will launch a comprehensive, formal contractor recruiting program. The team will perform the recruitment and ensure that high-quality contractors will participate in the program. Clear expectations of contractor performance will be set. Stages of the program will include:</p> <ul style="list-style-type: none"> • Program customization and launch – PECI will begin by customizing the AirCare Plus program for ComEd which will include measure savings estimation and documentation, incentive design, program policy design, marketing collateral development and more. • Contractor training – Contractors will complete a multi-day training that includes both in-office and rooftop components. This training covers program features and requirements, tools and the RTU repairs and upgrades • Customer engagement – Contractors engage with their customers or with customers referred by a utility representative. The contractor explains the work that will be performed, presents the AirCare Plus marketing material and enrolls these customers into the program. Technicians service the RTUs per customer agreements with guidance from the program's custom RTU diagnostic tool. Depending on the unit condition and eligibility, a number of measures may be performed. These include scheduling, thermostat replacement, economizer control upgrades and repairs, belt retrofitting, coil clearing and refrigerant charge adjustment. • QA/QC – After the work is performed, PECI conducts a quality control review of the data, comparing them to targets and past program results. Field audits are performed randomly and selectively based on abnormal data or poor contractor performance. • Incentives paid and savings claimed – Once PECI has performed these checks, PECI pays contractors for the completed measures. Finally, a data file and invoice will be periodically submitted to ComEd for review and payment.
Target Market	Small to medium sized businesses at or below 100kW peak demand
Marketing Strategy	<p>PECI will deploy two marketing strategies: (1) Direct marketing to customers, and (2) Contractor outreach. PECI has prepared marketing materials to address the variable demographic nature of the small business environment.</p> <p>Direct to Customer Marketing:</p> <ul style="list-style-type: none"> • Program brochure (pre-enrollment) – These materials will be utilized by the contractors when talking to potential customers and can be customized to include information on other ComEd Smart Ideas programs • Program expectation cards (post-enrollment) – Contractors will use these materials to set expectations for service components and timelines once customers have enrolled in the program • Program tune-up checklist and energy savings reports (post-service) – Contractors will follow through with customers post-service, providing service details • Target the major players – A list of the most desirable customers based on energy savings and participation potential will be developed and those customers will be targeted. • Website – A website will be created specific to ComEd's AirCare Plus program. This website will not only include program information for customers and contractors but will also serve as a vehicle for customer submissions via web-to-lead forms that feed directly into to customer resource management system, if applicable.

Program Name	PECI – AirCare Plus Small Commercial HVAC Tune-Up Program																																																																	
	<p><u>Contractor Outreach</u></p> <p>PECI will launch a comprehensive, formal contractor recruiting program. To recruit contractors, the team will reach out to local industry groups to advise the program and find interested contractors.</p> <p>After the initial marketing phase, PECI will move to more of a mass approach to reach a wider audience using collateral developed in compliance with ComEd's branding guidelines.</p>																																																																	
Eligible Measures	<p>The primary measure in this program is a tune-up of an RTU, including refrigerant charge calibration.</p> <ul style="list-style-type: none"> • Incentives will be set at 75% of incremental measure costs (IMC) • Unit cooling capacity will be 7.5 tons on average • Certain portions of the RTU population will have subsystems appropriate for additional measures, assumed to be at the following percentages: <ul style="list-style-type: none"> ◦ Economizers: 30% ◦ Thermostats: 100% ◦ Belt-driven motors: 80% ◦ Refrigerant systems: 100% 																																																																	
Program Targets	<p>Participation Levels</p> <table border="1"> <thead> <tr> <th></th> <th>PY7</th> <th>PY8</th> <th>PY9</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Total Tons</td> <td>26,000</td> <td>69,333</td> <td>82,333</td> <td>177,666</td> </tr> </tbody> </table> <p>Annual Savings Targets</p> <table border="1"> <thead> <tr> <th></th> <th>PY7</th> <th>PY8</th> <th>PY9</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Gross MWh</td> <td>4,197</td> <td>10,952</td> <td>12,897</td> <td>28,046</td> </tr> <tr> <td>Net MWh</td> <td>3,324</td> <td>9,309</td> <td>10,962</td> <td>23,595</td> </tr> <tr> <td>Gross MW</td> <td>0.460</td> <td>1.202</td> <td>1.414</td> <td>3.076</td> </tr> <tr> <td>Net MW</td> <td>0.391</td> <td>1.021</td> <td>1.202</td> <td>2.614</td> </tr> </tbody> </table> <p>Program Budget</p> <table border="1"> <thead> <tr> <th></th> <th>PY7</th> <th>PY8</th> <th>PY9</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td>\$393,908</td> <td>\$1,028,003</td> <td>\$1,210,546</td> <td>\$2,632,457</td> </tr> <tr> <td>Implementation</td> <td>\$28,335</td> <td>\$73,948</td> <td>\$87,079</td> <td>\$189,362</td> </tr> <tr> <td>Incentives</td> <td>\$595,689</td> <td>\$1,554,603</td> <td>\$1,830,654</td> <td>\$3,980,946</td> </tr> <tr> <td>Marketing and Other</td> <td>\$5,797</td> <td>\$15,129</td> <td>\$17,815</td> <td>\$38,741</td> </tr> <tr> <td>Total</td> <td>\$1,023,729</td> <td>\$2,671,683</td> <td>\$3,146,094</td> <td>\$6,841,506</td> </tr> </tbody> </table>		PY7	PY8	PY9	Total	Total Tons	26,000	69,333	82,333	177,666		PY7	PY8	PY9	Total	Gross MWh	4,197	10,952	12,897	28,046	Net MWh	3,324	9,309	10,962	23,595	Gross MW	0.460	1.202	1.414	3.076	Net MW	0.391	1.021	1.202	2.614		PY7	PY8	PY9	Total	Administration	\$393,908	\$1,028,003	\$1,210,546	\$2,632,457	Implementation	\$28,335	\$73,948	\$87,079	\$189,362	Incentives	\$595,689	\$1,554,603	\$1,830,654	\$3,980,946	Marketing and Other	\$5,797	\$15,129	\$17,815	\$38,741	Total	\$1,023,729	\$2,671,683	\$3,146,094	\$6,841,506
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Program Name	PECI – AirCare Plus Small Commercial HVAC Tune-Up Program	
	Cost-Effectiveness Results	
		Test Results
	TRC	1.78
	UCT	1.76
	CCE	\$0.024

Program Name	CNT Energy – Retrofit Chicago Residential Program
Program Description	The Retrofit Chicago Residential Program (Program) is a joint partnership with the City of Chicago and Integrys Energy Services (Integrys) established to improve the energy efficiency of electric heat multi-family accounts and to distribute energy efficiency products to households across Chicago. The partnership will provide electric heat multi-family accounts with simple, proven and effective energy efficiency solutions; and will leverage Integrys' knowledge base to conduct direct marketing of electric heat multi-family accounts located in Chicago, with a particular focus on Chicago's working class neighborhoods.
Program Duration	June 2014 through May 2017, a 3-year program
Collaboration	None
Delivery Strategy	<p>CNT Energy will be the program administrator and will serve as the primary contact for ComEd. CNT Energy will coordinate outreach efforts between the City of Chicago and Integrys and work with partners to conduct appropriate EM&V efforts. Integrys will serve as a subcontractor to CNT Energy – the City of Chicago will act as a partner but will not have a contractual obligation with either CNT Energy or Integrys.</p> <p>Upon signing up for this Program, customers will be connected with CNT Energy to complete the retrofit process. CNT Energy will conduct an initial screening to verify eligibility and filter out customers that may not benefit from the Program. Once enrolled in the Program, customers are assigned a CNT Energy Analyst that will guide the customer from start to finish. The process includes comprehensive audits to inform the owner of the building of potential energy efficiency opportunities that can benefit from measures incentivized by ComEd. At the time of the audit, CNT Energy will directly install a variety of energy efficiency products, such as CFLs, faucet aerators, smart strips, and showerheads in units. CNT Energy will work with building owners to assemble financing and incentive packages for energy retrofits, then complete the work with necessary QA/AC site inspections.</p> <p>This Program's model is largely based on the key roles the partners have played previously in other programs.</p> <ul style="list-style-type: none"> • CNT Energy – CNT Energy is one of the nation's leaders in providing turnkey solutions for several multi-family retrofits projects. Since 2007, CNT Energy has managed retrofits for over 12,000 multi-family units in the Chicagoland area, including over 500 in electric space heat buildings. • Integrys – Integrys will apply its extensive outreach experience to target key customers. Integrys will also leverage its project management expertise to assist with the Program as needed. Integrys will leverage its program management expertise to ensure this Program is implemented efficiently and effectively. • City of Chicago – The City of Chicago has served as a validator and promoter of various energy efficiency programs (including Energy Impact Illinois as a partner with ComEd) through press, Aldermanic/Department-level outreach, and Mayoral involvement.
Target Market	This Program targets electric heat multi-family customers in ComEd's Chicago service territory. All such targeted customers taking delivery service from ComEd and located in Chicago are eligible for this program regardless of their choice of supplier.

Program Name	CNT Energy - Retrofit Chicago Residential Program																																							
Marketing Strategy	<p>This Program will be managed by CNT Energy, the City of Chicago, and Integrys. Integrys will assist in identifying the multi-family electric heat customers in the City of Chicago that will be targeted to receive information about energy efficiency through this Program. This Program will build upon a strong foundation of sustainability initiatives launched by the City of Chicago which set a goal of improving citywide efficiency by 5% by 2015. The City of Chicago plan provides concrete initiatives, metrics, and strategies aimed at advancing Chicago's goal of becoming the most sustainable city in the country. The program will provide turnkey energy efficiency services to multi-family electric space heating customers. With over 32,000 Integrys multi-family electric space heat accounts in Chicago, together with the expiration of the electric space heating rate class discounts, this Program will focus on recruiting those accounts and buildings. CNT Energy will leverage its existing contracts within the community of multi-family building owners to assist with additional outreach and recruitment.</p> <p>The City of Chicago and Integrys will work together to develop energy efficiency programs. As the supplier to the City of Chicago's municipal aggregation program, Integrys has the ability to identify the City of Chicago's multi-family electric space heating customers. Using this information, Integrys and the City of Chicago will identify top retrofit candidates by use, location, building properties, etc. Targeted outreach strategies will be developed to inform customers about energy efficiency opportunities, with a special focus on the City of Chicago's Program, using collateral such as direct mail, lobby booths, etc. In addition, CNT Energy will leverage its existing contacts within the community of multi-family building owners to assist with additional outreach and recruitment.</p>																																							
Eligible Measures	<p>The program will primarily focus on energy audits and free direct instillation of energy efficiency products with the anticipation that a significant number of customers will participate in deeper retrofit projects. Smart strips, programmable thermostats, occupancy sensors, low-flow water devices, and CFLs will be distributed. Air conditioner tune-ups and attic and wall insulation will also be a part of this program.</p>																																							
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Program Name	CNT Energy – Retrofit Chicago Residential Program				
	Program Budget				
		PY7	PY8	PY9	Total
	Administration	\$0	\$0	\$0	\$0
	Implementation	\$205,988	\$205,988	\$205,988	\$617,964
	Incentives	\$230,568	\$256,908	\$307,926	\$795,402
	Marketing and Other	\$106,159	\$84,767	\$63,375	\$254,301
	Total	\$542,715	\$547,663	\$577,289	\$1,667,667
Cost-Effectiveness Results					
		Test Results			
	TRC	1.18			
	UCT	1.53			
	CCE	\$0.052			

Non-Qualifying Programs

The proposals not meeting the minimum requirements included:

M2 (Multifamily): This bid competed with the Smart Ideas Comprehensive Multifamily program, targeting similar buildings with a less comprehensive offering. This proposal was limited to lighting upgrades in common areas, while the Smart Ideas offering provides comprehensive solutions, including in-unit direct installations, common area upgrades of lighting and additional measures, and comprehensive building shell and equipment retrofits. In addition, the Smart Ideas offering is delivered in concert with natural gas utilities, offering more comprehensive solutions to building owners and residents.

M3 : This bid was unresponsive in that it did not include a number of items required by the form of submission (including general materials, full budget proposal, full cost-effectiveness data, schedule, and firm experience). The bid also included no discussion of a pay-for-performance fee structure and appeared to rely on incentives from other Smart Ideas programs.

B2 : This bid was withdrawn.

B4 : This was nonresponsive in that it did not provide data sufficient for calculating cost-effectiveness results. The bid also competed with the Smart Ideas Small Business Energy Services program, offering a similar delivery structure without a clear approach for targeting underserved customers.

B5 (Small Business DI): This bid competed with the Smart Ideas Small Business Energy Services program, offering a substantially identical delivery structure. While the bid targeted certain market segments, there is no indication that the targeted markets are underserved by the Smart ideas offering.

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B7 : This bid competed with the Smart Ideas Small Business Energy Services program, offering a substantially identical delivery structure without a clear approach for targeting underserved customers.

B8 : This bid was unresponsive in that it did not provide the information needed to calculate cost-effectiveness results. The bid was also not structured as a stand-alone program, but instead relied on incentives offered by other Smart Ideas offerings.

B9 (Commercial Office): This bid competed with the Smart Ideas Commercial Real Estate program, offering a substantially identical delivery structure without a clear approach for targeting underserved customers.

B10 (Nonprofit): This bid competed with a similar marketing channel included in the Smart Ideas portfolio, offering substantially identical services without a clear approach for targeting underserved customers.

Appendix C

Appendix C-2 - Energy Efficiency Analysis Summary (version 2, 09/10/2013)

Program Vendor	Program Name	Program Code	Target Market	Units of Measure	Number of Units			Net Busbar MWh			Net At-the-Meter MWh			Total 3-year Program Cost	TRC Test	Utility Cost Test (UCT) (Discount Rate = 0)	Cost of Conserved Energy ("CCE") [\$/kWh]
					2014 C(1)	2015 C(2)	2016 C(3)	2014 D(1)	2015 D(2)	2016 D(3)	2014 E(1)	2015 E(2)	2016 E(3)				
A	B																
ComEd Programs																	
Home Energy Reports	HER	Residential	Customers	1,500,000	1,500,000	1,500,000		301,780	374,971	390,233	271,825	337,751	351,498	\$ 41,552,668	1.90	1.92	\$ 0.039
Small Business Energy Services	SmallBiz	Small Commercial	Sites	16,000	16,000	16,000		111,020	147,657	185,403	100,000	133,000	167,000	\$ 110,013,985	2.32	3.58	\$ 0.026
Total - ComEd Programs								412,800	522,628	575,636	371,825	470,751	518,498	\$ 151,566,653			
Third Party Programs (Vendor listed)																	
Accelerate Group	CUB Energy Saver	Accelerate	Residential	Web Enrollments	10,000	10,000	10,000	6,628	13,256	19,884	5,970	11,940	17,910	\$ 1,775,000	1.72	1.74	\$ 0.045
Conservation Services Group (CSG)	Home Energy Services	CSG	Residential	Homes Assessed	300	300	300	2,239	2,239	2,239	2,017	2,017	2,017	\$ 4,701,285	1.23	2.82	\$ 0.042
OneChange	Small Commercial Power Strip	OneChange	Small Commercial	Power Strips	50,000	-	-	4,840	-	-	4,360	-	-	\$ 1,267,000	1.05	1.06	\$ 0.052
Shelton Solutions	Energy Stewards	Shelton	Residential	Participants	3,000	-	-	1,366	-	-	1,230	-	-	\$ 200,000	1.97	0.49	\$ 0.146
PECI	Small Commercial HVAC Tune-up	PECI	Small Commercial	Tons cooling	26,000	69,333	82,333	3,690	10,335	12,170	3,324	9,309	10,962	\$ 6,841,506	1.78	1.76	\$ 0.024
CNT	Retrofit Chicago Residential	CNT	Residential	Sites	867	867	866	1,285	1,685	2,029	1,157	1,518	1,828	\$ 1,667,667	1.18	1.53	\$ 0.052
Total - Third Party Programs								20,048	27,515	36,322	18,058	24,784	32,717	\$ 16,452,458			
Combined Total								432,848	550,143	611,958	389,883	495,535	551,215	\$ 168,019,111			
Total Passing UCT(0)								431,482	548,458	609,929	388,653	495,535	551,215	\$ 167,819,111			

Note: Small Commercial Power Strip and Energy Stewards are 1-year programs. Remaining programs are 3-years

Energy Stewards program has a UCT(0) < 1.0; A UCT less than 1.0 means the program would not lead to a reduction in the overall cost of electric service.

9/21/2012		1	0.61	2.5677 equinox	Average Daily Hours
1-Jun-13	0.06	1.098951		1.000131 ssolstice	Hours Month
2-Jun-13	0.06	1.089733		4.135385 wsolstice	1.026 June
3-Jun-13	0.05	1.080954			1.152 July
4-Jun-13	0.05	1.072614			1.668 August
5-Jun-13	0.04	1.064718			2.421 September
6-Jun-13	0.04	1.057267			3.214 October
7-Jun-13	0.03	1.050264			3.834 November
8-Jun-13	0.03	1.04371			4.111 December
9-Jun-13	0.02	1.037608			3.967 January
10-Jun-13	0.02	1.03196			3.469 February
11-Jun-13	0.02	1.026766			2.741 March
12-Jun-13	0.01	1.022029			1.945 April
13-Jun-13	0.01	1.01775			1.318 May
14-Jun-13	0.01	1.01393			2.567 Annual
15-Jun-13	0.01	1.010571			
16-Jun-13	0.00	1.007673			
17-Jun-13	0.00	1.005238			
18-Jun-13	0.00	1.003265			
19-Jun-13	0.00	1.001756			
20-Jun-13	0.00	1.000711			
21-Jun-13	0.00	1.000131			
22-Jun-13	0.00	1.000015			
23-Jun-13	0.00	1.000363			
24-Jun-13	0.00	1.001176			
25-Jun-13	0.00	1.002453			
26-Jun-13	0.00	1.004194			
27-Jun-13	0.00	1.006398			
28-Jun-13	0.01	1.009065			
29-Jun-13	0.01	1.012193			
30-Jun-13	0.01	1.015783	1.026308		
1-Jul-13	0.01	1.019832			
2-Jul-13	0.02	1.02434			
3-Jul-13	0.02	1.029306			
4-Jul-13	0.02	1.034727			
5-Jul-13	0.03	1.040603			
6-Jul-13	0.03	1.046931			
7-Jul-13	0.03	1.053709			
8-Jul-13	0.04	1.060937			
9-Jul-13	0.04	1.068611			
10-Jul-13	0.05	1.076729			
11-Jul-13	0.05	1.085289			
12-Jul-13	0.06	1.094288			
13-Jul-13	0.07	1.103723			
14-Jul-13	0.07	1.113593			
15-Jul-13	0.08	1.123893			
16-Jul-13	0.09	1.134622			
17-Jul-13	0.09	1.145774			
18-Jul-13	0.10	1.157349			
19-Jul-13	0.11	1.169341			
20-Jul-13	0.12	1.181747			
21-Jul-13	0.12	1.194565			
22-Jul-13	0.13	1.207789			
23-Jul-13	0.14	1.221416			
24-Jul-13	0.15	1.235442			
25-Jul-13	0.16	1.249863			

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26-Jul-13	0.17	1.264674
27-Jul-13	0.18	1.279871
28-Jul-13	0.19	1.29845
29-Jul-13	0.20	1.311406
30-Jul-13	0.21	1.327734
31-Jul-13	0.22	1.34443 1.151548
1-Aug-13	0.23	1.361488
2-Aug-13	0.24	1.378904
3-Aug-13	0.25	1.396672
4-Aug-13	0.26	1.414787
5-Aug-13	0.28	1.433243
6-Aug-13	0.29	1.452036
7-Aug-13	0.30	1.471159
8-Aug-13	0.31	1.490607
9-Aug-13	0.33	1.510375
10-Aug-13	0.34	1.530455
11-Aug-13	0.35	1.550843
12-Aug-13	0.36	1.571533
13-Aug-13	0.38	1.592517
14-Aug-13	0.39	1.613791
15-Aug-13	0.41	1.635347
16-Aug-13	0.42	1.657179
17-Aug-13	0.43	1.679282
18-Aug-13	0.45	1.701647
19-Aug-13	0.46	1.724269
20-Aug-13	0.48	1.747141
21-Aug-13	0.49	1.770257
22-Aug-13	0.51	1.793608
23-Aug-13	0.52	1.817189
24-Aug-13	0.54	1.840992
25-Aug-13	0.55	1.865011
26-Aug-13	0.57	1.889238
27-Aug-13	0.58	1.913666
28-Aug-13	0.60	1.938287
29-Aug-13	0.61	1.963095
30-Aug-13	0.63	1.988083
31-Aug-13	0.65	2.013242 1.667934
1-Sep-13	0.66	2.038565
2-Sep-13	0.68	2.064046
3-Sep-13	0.70	2.089675
4-Sep-13	0.71	2.115446
5-Sep-13	0.73	2.141351
6-Sep-13	0.74	2.167383
7-Sep-13	0.76	2.193533
8-Sep-13	0.78	2.219794
9-Sep-13	0.79	2.246158
10-Sep-13	0.81	2.272617
11-Sep-13	0.83	2.299164
12-Sep-13	0.85	2.32579
13-Sep-13	0.86	2.352488
14-Sep-13	0.88	2.37925
15-Sep-13	0.90	2.406067
16-Sep-13	0.91	2.432933
17-Sep-13	0.93	2.459838
18-Sep-13	0.95	2.486776
19-Sep-13	0.97	2.513737
20-Sep-13	0.98	2.540715
21-Sep-13	1.00	2.5677

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22-Sep-13	1.02	2.594685
23-Sep-13	1.03	2.621663
24-Sep-13	1.05	2.648624
25-Sep-13	1.07	2.675562
26-Sep-13	1.09	2.702467
27-Sep-13	1.10	2.729333
28-Sep-13	1.12	2.75615
29-Sep-13	1.14	2.782912
30-Sep-13	1.15	2.80961 2.421134
1-Oct-13	1.17	2.836236
2-Oct-13	1.19	2.862783
3-Oct-13	1.21	2.889242
4-Oct-13	1.22	2.915606
5-Oct-13	1.24	2.941867
6-Oct-13	1.26	2.968017
7-Oct-13	1.27	2.994049
8-Oct-13	1.29	3.019954
9-Oct-13	1.30	3.045725
10-Oct-13	1.32	3.071354
11-Oct-13	1.34	3.096835
12-Oct-13	1.35	3.122158
13-Oct-13	1.37	3.147317
14-Oct-13	1.39	3.172305
15-Oct-13	1.40	3.197113
16-Oct-13	1.42	3.221734
17-Oct-13	1.43	3.246162
18-Oct-13	1.45	3.270389
19-Oct-13	1.46	3.294408
20-Oct-13	1.48	3.318211
21-Oct-13	1.49	3.341792
22-Oct-13	1.51	3.365143
23-Oct-13	1.52	3.388259
24-Oct-13	1.54	3.411131
25-Oct-13	1.55	3.433753
26-Oct-13	1.57	3.456118
27-Oct-13	1.58	3.478221
28-Oct-13	1.59	3.500053
29-Oct-13	1.61	3.521609
30-Oct-13	1.62	3.542883
31-Oct-13	1.64	3.563867 3.21401
1-Nov-13	1.65	3.584557
2-Nov-13	1.66	3.604945
3-Nov-13	1.67	3.625025
4-Nov-13	1.69	3.644793
5-Nov-13	1.70	3.664241
6-Nov-13	1.71	3.683364
7-Nov-13	1.72	3.702157
8-Nov-13	1.74	3.720613
9-Nov-13	1.75	3.738728
10-Nov-13	1.76	3.756496
11-Nov-13	1.77	3.773912
12-Nov-13	1.78	3.79097
13-Nov-13	1.79	3.807666
14-Nov-13	1.80	3.823994
15-Nov-13	1.81	3.83995
16-Nov-13	1.82	3.855529
17-Nov-13	1.83	3.870726
18-Nov-13	1.84	3.885537

Appendix C

19-Nov-13	1.85	3.899958
20-Nov-13	1.86	3.913984
21-Nov-13	1.87	3.927611
22-Nov-13	1.88	3.940835
23-Nov-13	1.88	3.953653
24-Nov-13	1.89	3.966059
25-Nov-13	1.90	3.978051
26-Nov-13	1.91	3.989626
27-Nov-13	1.91	4.000778
28-Nov-13	1.92	4.011507
29-Nov-13	1.93	4.021807
30-Nov-13	1.93	4.031677 3.833625
1-Dec-13	1.94	4.041112
2-Dec-13	1.95	4.050111
3-Dec-13	1.95	4.058671
4-Dec-13	1.96	4.066789
5-Dec-13	1.96	4.074463
6-Dec-13	1.97	4.081691
7-Dec-13	1.97	4.088469
8-Dec-13	1.97	4.094797
9-Dec-13	1.98	4.100673
10-Dec-13	1.98	4.106094
11-Dec-13	1.98	4.11106
12-Dec-13	1.99	4.115568
13-Dec-13	1.99	4.119617
14-Dec-13	1.99	4.123207
15-Dec-13	1.99	4.126335
16-Dec-13	2.00	4.129002
17-Dec-13	2.00	4.131206
18-Dec-13	2.00	4.132947
19-Dec-13	2.00	4.134224
20-Dec-13	2.00	4.135037
21-Dec-13	2.00	4.135385
22-Dec-13	2.00	4.135269
23-Dec-13	2.00	4.134689
24-Dec-13	2.00	4.133644
25-Dec-13	2.00	4.132135
26-Dec-13	2.00	4.130162
27-Dec-13	2.00	4.127727
28-Dec-13	1.99	4.124829
29-Dec-13	1.99	4.12147
30-Dec-13	1.99	4.11765
31-Dec-13	1.99	4.113371 4.110561
1-Jan-14	1.98	4.108634
2-Jan-14	1.98	4.10344
3-Jan-14	1.98	4.097792
4-Jan-14	1.97	4.09169
5-Jan-14	1.97	4.085136
6-Jan-14	1.96	4.078133
7-Jan-14	1.96	4.070682
8-Jan-14	1.95	4.062786
9-Jan-14	1.95	4.054446
10-Jan-14	1.94	4.045667
11-Jan-14	1.94	4.036449
12-Jan-14	1.93	4.026796
13-Jan-14	1.92	4.016711
14-Jan-14	1.92	4.006196
15-Jan-14	1.91	3.995255

Appendix C

16-Jan-14	1.90	3.983891
17-Jan-14	1.90	3.972107
18-Jan-14	1.89	3.959907
19-Jan-14	1.88	3.947295
20-Jan-14	1.87	3.934274
21-Jan-14	1.86	3.920848
22-Jan-14	1.85	3.907021
23-Jan-14	1.85	3.892797
24-Jan-14	1.84	3.87818
25-Jan-14	1.83	3.863175
26-Jan-14	1.82	3.847787
27-Jan-14	1.81	3.832019
28-Jan-14	1.80	3.815876
29-Jan-14	1.79	3.799363
30-Jan-14	1.77	3.782486
31-Jan-14	1.76	3.765248 3.967164
1-Feb-14	1.75	3.747656
2-Feb-14	1.74	3.729714
3-Feb-14	1.73	3.711427
4-Feb-14	1.72	3.692802
5-Feb-14	1.71	3.673843
6-Feb-14	1.69	3.654557
7-Feb-14	1.68	3.634948
8-Feb-14	1.67	3.615024
9-Feb-14	1.66	3.594789
10-Feb-14	1.64	3.574249
11-Feb-14	1.63	3.553411
12-Feb-14	1.62	3.532282
13-Feb-14	1.60	3.510866
14-Feb-14	1.59	3.489171
15-Feb-14	1.57	3.467203
16-Feb-14	1.56	3.444968
17-Feb-14	1.55	3.422473
18-Feb-14	1.53	3.399725
19-Feb-14	1.52	3.376731
20-Feb-14	1.50	3.353497
21-Feb-14	1.49	3.33003
22-Feb-14	1.47	3.306337
23-Feb-14	1.46	3.282425
24-Feb-14	1.44	3.258301
25-Feb-14	1.43	3.233973
26-Feb-14	1.41	3.209447
27-Feb-14	1.39	3.184731
28-Feb-14	1.38	3.159833 3.469443
1-Mar-14	1.36	3.134759
2-Mar-14	1.35	3.109516
3-Mar-14	1.33	3.084114
4-Mar-14	1.31	3.058558
5-Mar-14	1.30	3.032857
6-Mar-14	1.28	3.007018
7-Mar-14	1.26	2.981048
8-Mar-14	1.25	2.954957
9-Mar-14	1.23	2.92875
10-Mar-14	1.21	2.902437
11-Mar-14	1.20	2.876024
12-Mar-14	1.18	2.84952
13-Mar-14	1.16	2.822933
14-Mar-14	1.15	2.796269

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15-Mar-14	1.13	2.769539
16-Mar-14	1.11	2.742748
17-Mar-14	1.09	2.715905
18-Mar-14	1.08	2.689019
19-Mar-14	1.06	2.662096
20-Mar-14	1.04	2.635146
21-Mar-14	1.03	2.608176
22-Mar-14	1.01	2.581193
23-Mar-14	0.99	2.554207
24-Mar-14	0.97	2.527224
25-Mar-14	0.96	2.500254
26-Mar-14	0.94	2.473304
27-Mar-14	0.92	2.446381
28-Mar-14	0.91	2.419495
29-Mar-14	0.89	2.392652
30-Mar-14	0.87	2.365861
31-Mar-14	0.85	2.339131 2.74068
1-Apr-14	0.84	2.312467
2-Apr-14	0.82	2.28588
3-Apr-14	0.80	2.259376
4-Apr-14	0.79	2.232963
5-Apr-14	0.77	2.20665
6-Apr-14	0.75	2.180443
7-Apr-14	0.74	2.154352
8-Apr-14	0.72	2.128382
9-Apr-14	0.70	2.102543
10-Apr-14	0.69	2.076842
11-Apr-14	0.67	2.051286
12-Apr-14	0.65	2.025884
13-Apr-14	0.64	2.000641
14-Apr-14	0.62	1.975567
15-Apr-14	0.61	1.950669
16-Apr-14	0.59	1.925953
17-Apr-14	0.57	1.901427
18-Apr-14	0.56	1.877099
19-Apr-14	0.54	1.852975
20-Apr-14	0.53	1.829063
21-Apr-14	0.51	1.80537
22-Apr-14	0.50	1.781903
23-Apr-14	0.48	1.758669
24-Apr-14	0.47	1.735675
25-Apr-14	0.45	1.712927
26-Apr-14	0.44	1.690432
27-Apr-14	0.43	1.668197
28-Apr-14	0.41	1.646229
29-Apr-14	0.40	1.624534
30-Apr-14	0.38	1.603118 1.945251
1-May-14	0.37	1.581989
2-May-14	0.36	1.561151
3-May-14	0.34	1.540611
4-May-14	0.33	1.520376
5-May-14	0.32	1.500452
6-May-14	0.31	1.480843
7-May-14	0.29	1.461557
8-May-14	0.28	1.442598
9-May-14	0.27	1.423973
10-May-14	0.26	1.405686
11-May-14	0.25	1.387744

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12-May-14	0.24	1.370152
13-May-14	0.23	1.352914
14-May-14	0.21	1.336037
15-May-14	0.20	1.319524
16-May-14	0.19	1.303381
17-May-14	0.18	1.287613
18-May-14	0.17	1.272225
19-May-14	0.16	1.25722
20-May-14	0.15	1.242603
21-May-14	0.15	1.228379
22-May-14	0.14	1.214552
23-May-14	0.13	1.201126
24-May-14	0.12	1.188105
25-May-14	0.11	1.175493
26-May-14	0.10	1.163293
27-May-14	0.10	1.151509
28-May-14	0.09	1.140145
29-May-14	0.08	1.129204
30-May-14	0.08	1.118689
31-May-14	0.07	1.108604 1.318314
1-Jun-14	0.06	1.098951
2-Jun-14	0.06	1.089733
3-Jun-14	0.05	1.080954
4-Jun-14	0.05	1.072614
5-Jun-14	0.04	1.064718
6-Jun-14	0.04	1.057267
7-Jun-14	0.03	1.050264
8-Jun-14	0.03	1.04371
9-Jun-14	0.02	1.037608
10-Jun-14	0.02	1.03196
11-Jun-14	0.02	1.026766
12-Jun-14	0.01	1.022029
13-Jun-14	0.01	1.01775
14-Jun-14	0.01	1.01393
15-Jun-14	0.01	1.010571
16-Jun-14	0.00	1.007673
17-Jun-14	0.00	1.005238
18-Jun-14	0.00	1.003265
19-Jun-14	0.00	1.001756
20-Jun-14	0.00	1.000711
21-Jun-14	0.00	1.000131
22-Jun-14	0.00	1.000015
23-Jun-14	0.00	1.000363
24-Jun-14	0.00	1.001176
25-Jun-14	0.00	1.002453
26-Jun-14	0.00	1.004194
27-Jun-14	0.00	1.006398
28-Jun-14	0.01	1.009065
29-Jun-14	0.01	1.012193
30-Jun-14	0.01	1.015783
1-Jul-14	0.01	1.019832
2-Jul-14	0.02	1.02434
3-Jul-14	0.02	1.029306
4-Jul-14	0.02	1.034727
5-Jul-14	0.03	1.040603
6-Jul-14	0.03	1.046931
7-Jul-14	0.03	1.053709
8-Jul-14	0.04	1.060937

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9-Jul-14	0.04	1.068611
10-Jul-14	0.05	1.076729
11-Jul-14	0.05	1.085289
12-Jul-14	0.06	1.094288
13-Jul-14	0.07	1.103723
14-Jul-14	0.07	1.113593
15-Jul-14	0.08	1.123893
16-Jul-14	0.09	1.134622
17-Jul-14	0.09	1.145774
18-Jul-14	0.10	1.157349
19-Jul-14	0.11	1.169341
20-Jul-14	0.12	1.181747
21-Jul-14	0.12	1.194565
22-Jul-14	0.13	1.207789
23-Jul-14	0.14	1.221416
24-Jul-14	0.15	1.235442
25-Jul-14	0.16	1.249863
26-Jul-14	0.17	1.264674
27-Jul-14	0.18	1.279871
28-Jul-14	0.19	1.29545
29-Jul-14	0.20	1.311406
30-Jul-14	0.21	1.327734
31-Jul-14	0.22	1.344443
1-Aug-14	0.23	1.361488
2-Aug-14	0.24	1.378904
3-Aug-14	0.25	1.396672
4-Aug-14	0.26	1.414787
5-Aug-14	0.28	1.433243
6-Aug-14	0.29	1.452036
7-Aug-14	0.30	1.471159
8-Aug-14	0.31	1.490607
9-Aug-14	0.33	1.510375
10-Aug-14	0.34	1.530455
11-Aug-14	0.35	1.550843
12-Aug-14	0.36	1.571533
13-Aug-14	0.38	1.592517
14-Aug-14	0.39	1.613791
15-Aug-14	0.41	1.635347
16-Aug-14	0.42	1.657179
17-Aug-14	0.43	1.679282
18-Aug-14	0.45	1.701647
19-Aug-14	0.46	1.724269
20-Aug-14	0.48	1.747141
21-Aug-14	0.49	1.770257
22-Aug-14	0.51	1.793608
23-Aug-14	0.52	1.817189
24-Aug-14	0.54	1.840992
25-Aug-14	0.55	1.865011
26-Aug-14	0.57	1.889238
27-Aug-14	0.58	1.913666
28-Aug-14	0.60	1.938287
29-Aug-14	0.61	1.963095
30-Aug-14	0.63	1.988083
31-Aug-14	0.65	2.013242
1-Sep-14	0.66	2.038565
2-Sep-14	0.68	2.064046
3-Sep-14	0.70	2.089675
4-Sep-14	0.71	2.115446

Appendix C

5-Sep-14	0.73	2.141351
6-Sep-14	0.74	2.167383
7-Sep-14	0.76	2.193533
8-Sep-14	0.78	2.219794
9-Sep-14	0.79	2.246158
10-Sep-14	0.81	2.272617
11-Sep-14	0.83	2.299164
12-Sep-14	0.85	2.32579
13-Sep-14	0.86	2.352488
14-Sep-14	0.88	2.37925
15-Sep-14	0.90	2.406067
16-Sep-14	0.91	2.432933
17-Sep-14	0.93	2.459838
18-Sep-14	0.95	2.486776
19-Sep-14	0.97	2.513737
20-Sep-14	0.98	2.540715
21-Sep-14	1.00	2.5677
22-Sep-14	1.02	2.594685
23-Sep-14	1.03	2.621663
24-Sep-14	1.05	2.648624
25-Sep-14	1.07	2.675562
26-Sep-14	1.09	2.702467
27-Sep-14	1.10	2.729333
28-Sep-14	1.12	2.75615
29-Sep-14	1.14	2.782912
30-Sep-14	1.15	2.80961
1-Oct-14	1.17	2.836236
2-Oct-14	1.19	2.862783
3-Oct-14	1.21	2.889242
4-Oct-14	1.22	2.915606
5-Oct-14	1.24	2.941867
6-Oct-14	1.26	2.968017
7-Oct-14	1.27	2.994049
8-Oct-14	1.29	3.019954
9-Oct-14	1.30	3.045725
10-Oct-14	1.32	3.071354
11-Oct-14	1.34	3.096835
12-Oct-14	1.35	3.122158
13-Oct-14	1.37	3.147317
14-Oct-14	1.39	3.172305
15-Oct-14	1.40	3.197113
16-Oct-14	1.42	3.221734
17-Oct-14	1.43	3.246162
18-Oct-14	1.45	3.270389
19-Oct-14	1.46	3.294408
20-Oct-14	1.48	3.318211
21-Oct-14	1.49	3.341792
22-Oct-14	1.51	3.365143
23-Oct-14	1.52	3.388259
24-Oct-14	1.54	3.411131
25-Oct-14	1.55	3.433753
26-Oct-14	1.57	3.456118
27-Oct-14	1.58	3.478221
28-Oct-14	1.59	3.500053
29-Oct-14	1.61	3.521609
30-Oct-14	1.62	3.542883
31-Oct-14	1.64	3.563867
1-Nov-14	1.65	3.584557

Appendix C

2-Nov-14	1.66	3.604945
3-Nov-14	1.67	3.625025
4-Nov-14	1.69	3.644793
5-Nov-14	1.70	3.664241
6-Nov-14	1.71	3.683364
7-Nov-14	1.72	3.702157
8-Nov-14	1.74	3.720613
9-Nov-14	1.75	3.738728
10-Nov-14	1.76	3.756496
11-Nov-14	1.77	3.773912
12-Nov-14	1.78	3.79097
13-Nov-14	1.79	3.807666
14-Nov-14	1.80	3.823994
15-Nov-14	1.81	3.83995
16-Nov-14	1.82	3.855529
17-Nov-14	1.83	3.870726
18-Nov-14	1.84	3.885537
19-Nov-14	1.85	3.899958
20-Nov-14	1.86	3.913984
21-Nov-14	1.87	3.927611
22-Nov-14	1.88	3.940835
23-Nov-14	1.88	3.953653
24-Nov-14	1.89	3.966059
25-Nov-14	1.90	3.978051
26-Nov-14	1.91	3.989626
27-Nov-14	1.91	4.000778
28-Nov-14	1.92	4.011507
29-Nov-14	1.93	4.021807
30-Nov-14	1.93	4.031677
1-Dec-14	1.94	4.041112
2-Dec-14	1.95	4.050111
3-Dec-14	1.95	4.058671
4-Dec-14	1.96	4.066789
5-Dec-14	1.96	4.074463
6-Dec-14	1.97	4.081691
7-Dec-14	1.97	4.088469
8-Dec-14	1.97	4.094797
9-Dec-14	1.98	4.100673
10-Dec-14	1.98	4.106094
11-Dec-14	1.98	4.111106
12-Dec-14	1.99	4.115568
13-Dec-14	1.99	4.119617
14-Dec-14	1.99	4.123207
15-Dec-14	1.99	4.126335
16-Dec-14	2.00	4.129002
17-Dec-14	2.00	4.131206
18-Dec-14	2.00	4.132947
19-Dec-14	2.00	4.134224
20-Dec-14	2.00	4.135037
21-Dec-14	2.00	4.135385
22-Dec-14	2.00	4.135269
23-Dec-14	2.00	4.134689
24-Dec-14	2.00	4.133644
25-Dec-14	2.00	4.132135
26-Dec-14	2.00	4.130162
27-Dec-14	2.00	4.127727
28-Dec-14	1.99	4.124829
29-Dec-14	1.99	4.12147

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30-Dec-14	1.99	4.11765
31-Dec-14	1.99	4.113371
1-Jan-15	1.98	4.108634
2-Jan-15	1.98	4.10344
3-Jan-15	1.98	4.097792
4-Jan-15	1.97	4.09169
5-Jan-15	1.97	4.085136
6-Jan-15	1.96	4.078133
7-Jan-15	1.96	4.070682
8-Jan-15	1.95	4.062786
9-Jan-15	1.95	4.054446
10-Jan-15	1.94	4.045667
11-Jan-15	1.94	4.036449
12-Jan-15	1.93	4.026796
13-Jan-15	1.92	4.016711
14-Jan-15	1.92	4.006196
15-Jan-15	1.91	3.995255
16-Jan-15	1.90	3.983891
17-Jan-15	1.90	3.972107
18-Jan-15	1.89	3.959907
19-Jan-15	1.88	3.947295
20-Jan-15	1.87	3.934274
21-Jan-15	1.86	3.920848
22-Jan-15	1.85	3.907021
23-Jan-15	1.85	3.892797
24-Jan-15	1.84	3.87818
25-Jan-15	1.83	3.863175
26-Jan-15	1.82	3.847787
27-Jan-15	1.81	3.832019
28-Jan-15	1.80	3.815876
29-Jan-15	1.79	3.799363
30-Jan-15	1.77	3.782486
31-Jan-15	1.76	3.765248
1-Feb-15	1.75	3.747656
2-Feb-15	1.74	3.729714
3-Feb-15	1.73	3.711427
4-Feb-15	1.72	3.692802
5-Feb-15	1.71	3.673843
6-Feb-15	1.69	3.654557
7-Feb-15	1.68	3.634948
8-Feb-15	1.67	3.615024
9-Feb-15	1.66	3.594789
10-Feb-15	1.64	3.574249
11-Feb-15	1.63	3.553411
12-Feb-15	1.62	3.532282
13-Feb-15	1.60	3.510866
14-Feb-15	1.59	3.489171
15-Feb-15	1.57	3.467203
16-Feb-15	1.56	3.444968
17-Feb-15	1.55	3.422473
18-Feb-15	1.53	3.399725
19-Feb-15	1.52	3.376731
20-Feb-15	1.50	3.353497
21-Feb-15	1.49	3.33003
22-Feb-15	1.47	3.306337
23-Feb-15	1.46	3.282425
24-Feb-15	1.44	3.258301
25-Feb-15	1.43	3.233973

Appendix C

26-Feb-15	1.41	3.209447
27-Feb-15	1.39	3.184731
28-Feb-15	1.38	3.159833
1-Mar-15	1.36	3.134759
2-Mar-15	1.35	3.109516
3-Mar-15	1.33	3.084114
4-Mar-15	1.31	3.058558
5-Mar-15	1.30	3.032857
6-Mar-15	1.28	3.007018
7-Mar-15	1.26	2.981048
8-Mar-15	1.25	2.954957
9-Mar-15	1.23	2.92875
10-Mar-15	1.21	2.902437
11-Mar-15	1.20	2.876024
12-Mar-15	1.18	2.84952
13-Mar-15	1.16	2.822933
14-Mar-15	1.15	2.796269
15-Mar-15	1.13	2.769539
16-Mar-15	1.11	2.742748
17-Mar-15	1.09	2.715905
18-Mar-15	1.08	2.689019
19-Mar-15	1.06	2.662096
20-Mar-15	1.04	2.635146
21-Mar-15	1.03	2.608176
22-Mar-15	1.01	2.581193
23-Mar-15	0.99	2.554207
24-Mar-15	0.97	2.527224
25-Mar-15	0.96	2.500254
26-Mar-15	0.94	2.473304
27-Mar-15	0.92	2.446381
28-Mar-15	0.91	2.419495
29-Mar-15	0.89	2.392652
30-Mar-15	0.87	2.365861
31-Mar-15	0.85	2.339131
1-Apr-15	0.84	2.312467
2-Apr-15	0.82	2.28588
3-Apr-15	0.80	2.259376
4-Apr-15	0.79	2.232963
5-Apr-15	0.77	2.20665
6-Apr-15	0.75	2.180443
7-Apr-15	0.74	2.154352
8-Apr-15	0.72	2.128382
9-Apr-15	0.70	2.102543
10-Apr-15	0.69	2.076842
11-Apr-15	0.67	2.051286
12-Apr-15	0.65	2.025884
13-Apr-15	0.64	2.000641
14-Apr-15	0.62	1.975567
15-Apr-15	0.61	1.950669
16-Apr-15	0.59	1.925953
17-Apr-15	0.57	1.901427
18-Apr-15	0.56	1.877099
19-Apr-15	0.54	1.852975
20-Apr-15	0.53	1.829063
21-Apr-15	0.51	1.80537
22-Apr-15	0.50	1.781903
23-Apr-15	0.48	1.758669
24-Apr-15	0.47	1.735675

Appendix C

25-Apr-15	0.45	1.712927
26-Apr-15	0.44	1.690432
27-Apr-15	0.43	1.668197
28-Apr-15	0.41	1.646229
29-Apr-15	0.40	1.624534
30-Apr-15	0.38	1.603118
1-May-15	0.37	1.581989
2-May-15	0.36	1.561151
3-May-15	0.34	1.540611
4-May-15	0.33	1.520376
5-May-15	0.32	1.500452
6-May-15	0.31	1.480843
7-May-15	0.29	1.461557
8-May-15	0.28	1.442598
9-May-15	0.27	1.423973
10-May-15	0.26	1.405686
11-May-15	0.25	1.387744
12-May-15	0.24	1.370152
13-May-15	0.23	1.352914
14-May-15	0.21	1.336037
15-May-15	0.20	1.319524
16-May-15	0.19	1.303381
17-May-15	0.18	1.287613
18-May-15	0.17	1.272225
19-May-15	0.16	1.25722
20-May-15	0.15	1.242603
21-May-15	0.15	1.228379
22-May-15	0.14	1.214552
23-May-15	0.13	1.201126
24-May-15	0.12	1.188105
25-May-15	0.11	1.175493
26-May-15	0.10	1.163293
27-May-15	0.10	1.151509
28-May-15	0.09	1.140145
29-May-15	0.08	1.129204
30-May-15	0.08	1.118689
31-May-15	0.07	1.108604
1-Jun-15	0.06	1.098951
2-Jun-15	0.06	1.089733
3-Jun-15	0.05	1.080954
4-Jun-15	0.05	1.072614
5-Jun-15	0.04	1.064718
6-Jun-15	0.04	1.057267
7-Jun-15	0.03	1.050264
8-Jun-15	0.03	1.04371
9-Jun-15	0.02	1.037608
10-Jun-15	0.02	1.03196
11-Jun-15	0.02	1.026766
12-Jun-15	0.01	1.022029
13-Jun-15	0.01	1.01775
14-Jun-15	0.01	1.01393
15-Jun-15	0.01	1.010571
16-Jun-15	0.00	1.007673
17-Jun-15	0.00	1.005238
18-Jun-15	0.00	1.003265
19-Jun-15	0.00	1.001756
20-Jun-15	0.00	1.000711
21-Jun-15	0.00	1.000131

Appendix C

22-Jun-15	0.00	1.000015
23-Jun-15	0.00	1.000363
24-Jun-15	0.00	1.001176
25-Jun-15	0.00	1.002453
26-Jun-15	0.00	1.004194
27-Jun-15	0.00	1.006398
28-Jun-15	0.01	1.009065
29-Jun-15	0.01	1.012193
30-Jun-15	0.01	1.015783
1-Jul-15	0.01	1.019832
2-Jul-15	0.02	1.02434
3-Jul-15	0.02	1.029306
4-Jul-15	0.02	1.034727
5-Jul-15	0.03	1.040603
6-Jul-15	0.03	1.046931
7-Jul-15	0.03	1.053709
8-Jul-15	0.04	1.060937
9-Jul-15	0.04	1.068611
10-Jul-15	0.05	1.076729
11-Jul-15	0.05	1.085289
12-Jul-15	0.06	1.094288
13-Jul-15	0.07	1.103723
14-Jul-15	0.07	1.113593
15-Jul-15	0.08	1.123893
16-Jul-15	0.09	1.134622
17-Jul-15	0.09	1.145774
18-Jul-15	0.10	1.157349
19-Jul-15	0.11	1.169341
20-Jul-15	0.12	1.181747
21-Jul-15	0.12	1.194565
22-Jul-15	0.13	1.207789
23-Jul-15	0.14	1.221416
24-Jul-15	0.15	1.235442
25-Jul-15	0.16	1.249863
26-Jul-15	0.17	1.264674
27-Jul-15	0.18	1.279871
28-Jul-15	0.19	1.29545
29-Jul-15	0.20	1.311406
30-Jul-15	0.21	1.327734
31-Jul-15	0.22	1.34443
1-Aug-15	0.23	1.361488
2-Aug-15	0.24	1.378904
3-Aug-15	0.25	1.396672
4-Aug-15	0.26	1.414787
5-Aug-15	0.28	1.433243
6-Aug-15	0.29	1.452036
7-Aug-15	0.30	1.471159
8-Aug-15	0.31	1.490607
9-Aug-15	0.33	1.510375
10-Aug-15	0.34	1.530455
11-Aug-15	0.35	1.550843
12-Aug-15	0.36	1.571533
13-Aug-15	0.38	1.592517
14-Aug-15	0.39	1.613791
15-Aug-15	0.41	1.635347
16-Aug-15	0.42	1.657179
17-Aug-15	0.43	1.679282
18-Aug-15	0.45	1.701647

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19-Aug-15	0.46	1.724269
20-Aug-15	0.48	1.747141
21-Aug-15	0.49	1.770257
22-Aug-15	0.51	1.793608
23-Aug-15	0.52	1.817189
24-Aug-15	0.54	1.840992
25-Aug-15	0.55	1.865011
26-Aug-15	0.57	1.889238
27-Aug-15	0.58	1.913666
28-Aug-15	0.60	1.938287
29-Aug-15	0.61	1.963095
30-Aug-15	0.63	1.988083
31-Aug-15	0.65	2.013242
1-Sep-15	0.66	2.038565
2-Sep-15	0.68	2.064046
3-Sep-15	0.70	2.089675
4-Sep-15	0.71	2.115446
5-Sep-15	0.73	2.141351
6-Sep-15	0.74	2.167383
7-Sep-15	0.76	2.193533
8-Sep-15	0.78	2.219794
9-Sep-15	0.79	2.246158
10-Sep-15	0.81	2.272617
11-Sep-15	0.83	2.299164
12-Sep-15	0.85	2.32579
13-Sep-15	0.86	2.352488
14-Sep-15	0.88	2.37925
15-Sep-15	0.90	2.406067
16-Sep-15	0.91	2.432933
17-Sep-15	0.93	2.459838
18-Sep-15	0.95	2.486776
19-Sep-15	0.97	2.513737
20-Sep-15	0.98	2.540715
21-Sep-15	1.00	2.5677
22-Sep-15	1.02	2.594685
23-Sep-15	1.03	2.621663
24-Sep-15	1.05	2.648624
25-Sep-15	1.07	2.675562
26-Sep-15	1.09	2.702467
27-Sep-15	1.10	2.729333
28-Sep-15	1.12	2.75615
29-Sep-15	1.14	2.782912
30-Sep-15	1.15	2.80961
1-Oct-15	1.17	2.836236
2-Oct-15	1.19	2.862783
3-Oct-15	1.21	2.889242
4-Oct-15	1.22	2.915606
5-Oct-15	1.24	2.941867
6-Oct-15	1.26	2.968017
7-Oct-15	1.27	2.994049
8-Oct-15	1.29	3.019954
9-Oct-15	1.30	3.045725
10-Oct-15	1.32	3.071354
11-Oct-15	1.34	3.096835
12-Oct-15	1.35	3.122158
13-Oct-15	1.37	3.147317
14-Oct-15	1.39	3.172305
15-Oct-15	1.40	3.197113

Appendix C

16-Oct-15	1.42	3.221734
17-Oct-15	1.43	3.246162
18-Oct-15	1.45	3.270389
19-Oct-15	1.46	3.294408
20-Oct-15	1.48	3.318211
21-Oct-15	1.49	3.341792
22-Oct-15	1.51	3.365143
23-Oct-15	1.52	3.388259
24-Oct-15	1.54	3.411131
25-Oct-15	1.55	3.433753
26-Oct-15	1.57	3.456118
27-Oct-15	1.58	3.478221
28-Oct-15	1.59	3.500053
29-Oct-15	1.61	3.521609
30-Oct-15	1.62	3.542883
31-Oct-15	1.64	3.563867
1-Nov-15	1.65	3.584557
2-Nov-15	1.66	3.604945
3-Nov-15	1.67	3.625025
4-Nov-15	1.69	3.644793
5-Nov-15	1.70	3.664241
6-Nov-15	1.71	3.683364
7-Nov-15	1.72	3.702157
8-Nov-15	1.74	3.720613
9-Nov-15	1.75	3.738728
10-Nov-15	1.76	3.756496
11-Nov-15	1.77	3.773912
12-Nov-15	1.78	3.79097
13-Nov-15	1.79	3.807666
14-Nov-15	1.80	3.823994
15-Nov-15	1.81	3.83995
16-Nov-15	1.82	3.855529
17-Nov-15	1.83	3.870726
18-Nov-15	1.84	3.885537
19-Nov-15	1.85	3.899958
20-Nov-15	1.86	3.913984
21-Nov-15	1.87	3.927611
22-Nov-15	1.88	3.940835
23-Nov-15	1.88	3.953653
24-Nov-15	1.89	3.966059
25-Nov-15	1.90	3.978051
26-Nov-15	1.91	3.989626
27-Nov-15	1.91	4.000778
28-Nov-15	1.92	4.011507
29-Nov-15	1.93	4.021807
30-Nov-15	1.93	4.031677
1-Dec-15	1.94	4.041112
2-Dec-15	1.95	4.050111
3-Dec-15	1.95	4.058671
4-Dec-15	1.96	4.066789
5-Dec-15	1.96	4.074463
6-Dec-15	1.97	4.081691
7-Dec-15	1.97	4.088469
8-Dec-15	1.97	4.094797
9-Dec-15	1.98	4.100673
10-Dec-15	1.98	4.106094
11-Dec-15	1.98	4.11106
12-Dec-15	1.99	4.115568

Appendix C

13-Dec-15	1.99	4.119617
14-Dec-15	1.99	4.123207
15-Dec-15	1.99	4.126335
16-Dec-15	2.00	4.129002
17-Dec-15	2.00	4.131206
18-Dec-15	2.00	4.132947
19-Dec-15	2.00	4.134224
20-Dec-15	2.00	4.135037
21-Dec-15	2.00	4.135385
22-Dec-15	2.00	4.135269
23-Dec-15	2.00	4.134689
24-Dec-15	2.00	4.133644
25-Dec-15	2.00	4.132135
26-Dec-15	2.00	4.130162
27-Dec-15	2.00	4.127727
28-Dec-15	1.99	4.124829
29-Dec-15	1.99	4.12147
30-Dec-15	1.99	4.11765
31-Dec-15	1.99	4.113371
1-Jan-16	1.98	4.108634
2-Jan-16	1.98	4.10344
3-Jan-16	1.98	4.097792
4-Jan-16	1.97	4.09169
5-Jan-16	1.97	4.085136
6-Jan-16	1.96	4.078133
7-Jan-16	1.96	4.070682
8-Jan-16	1.95	4.062786
9-Jan-16	1.95	4.054446
10-Jan-16	1.94	4.045667
11-Jan-16	1.94	4.036449
12-Jan-16	1.93	4.026796
13-Jan-16	1.92	4.016711
14-Jan-16	1.92	4.006196
15-Jan-16	1.91	3.995255
16-Jan-16	1.90	3.983891
17-Jan-16	1.90	3.972107
18-Jan-16	1.89	3.959907
19-Jan-16	1.88	3.947295
20-Jan-16	1.87	3.934274
21-Jan-16	1.86	3.920848
22-Jan-16	1.85	3.907021
23-Jan-16	1.85	3.892797
24-Jan-16	1.84	3.87818
25-Jan-16	1.83	3.863175
26-Jan-16	1.82	3.847787
27-Jan-16	1.81	3.832019
28-Jan-16	1.80	3.815876
29-Jan-16	1.79	3.799363
30-Jan-16	1.77	3.782486
31-Jan-16	1.76	3.765248
1-Feb-16	1.75	3.747656
2-Feb-16	1.74	3.729714
3-Feb-16	1.73	3.711427
4-Feb-16	1.72	3.692802
5-Feb-16	1.71	3.673843
6-Feb-16	1.69	3.654557
7-Feb-16	1.68	3.634948
8-Feb-16	1.67	3.615024

Appendix C

9-Feb-16	1.66	3.594789
10-Feb-16	1.64	3.574249
11-Feb-16	1.63	3.553411
12-Feb-16	1.62	3.532282
13-Feb-16	1.60	3.510866
14-Feb-16	1.59	3.489171
15-Feb-16	1.57	3.467203
16-Feb-16	1.56	3.444968
17-Feb-16	1.55	3.422473
18-Feb-16	1.53	3.399725
19-Feb-16	1.52	3.376731
20-Feb-16	1.50	3.353497
21-Feb-16	1.49	3.33003
22-Feb-16	1.47	3.306337
23-Feb-16	1.46	3.282425
24-Feb-16	1.44	3.258301
25-Feb-16	1.43	3.233973
26-Feb-16	1.41	3.209447
27-Feb-16	1.39	3.184731
28-Feb-16	1.38	3.159833
29-Feb-16	1.36	3.134759
1-Mar-16	1.35	3.109516
2-Mar-16	1.33	3.084114
3-Mar-16	1.31	3.058558
4-Mar-16	1.30	3.032857
5-Mar-16	1.28	3.007018
6-Mar-16	1.26	2.981048
7-Mar-16	1.25	2.954957
8-Mar-16	1.23	2.92875
9-Mar-16	1.21	2.902437
10-Mar-16	1.20	2.876024
11-Mar-16	1.18	2.84952
12-Mar-16	1.16	2.822933
13-Mar-16	1.15	2.796269
14-Mar-16	1.13	2.769539
15-Mar-16	1.11	2.742748
16-Mar-16	1.09	2.715905
17-Mar-16	1.08	2.689019
18-Mar-16	1.06	2.662096
19-Mar-16	1.04	2.635146
20-Mar-16	1.03	2.608176
21-Mar-16	1.01	2.581193
22-Mar-16	0.99	2.554207
23-Mar-16	0.97	2.527224
24-Mar-16	0.96	2.500254
25-Mar-16	0.94	2.473304
26-Mar-16	0.92	2.446381
27-Mar-16	0.91	2.419495
28-Mar-16	0.89	2.392652
29-Mar-16	0.87	2.365861
30-Mar-16	0.85	2.339131
31-Mar-16	0.84	2.312467
1-Apr-16	0.82	2.28588
2-Apr-16	0.80	2.259376
3-Apr-16	0.79	2.232963
4-Apr-16	0.77	2.20665
5-Apr-16	0.75	2.180443
6-Apr-16	0.74	2.154352

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7-Apr-16	0.72	2.128382
8-Apr-16	0.70	2.102543
9-Apr-16	0.69	2.076842
10-Apr-16	0.67	2.051286
11-Apr-16	0.65	2.025884
12-Apr-16	0.64	2.000641
13-Apr-16	0.62	1.975567
14-Apr-16	0.61	1.950669
15-Apr-16	0.59	1.925953
16-Apr-16	0.57	1.901427
17-Apr-16	0.56	1.877099
18-Apr-16	0.54	1.852975
19-Apr-16	0.53	1.829063
20-Apr-16	0.51	1.80537
21-Apr-16	0.50	1.781903
22-Apr-16	0.48	1.758669
23-Apr-16	0.47	1.735675
24-Apr-16	0.45	1.712927
25-Apr-16	0.44	1.690432
26-Apr-16	0.43	1.668197
27-Apr-16	0.41	1.646229
28-Apr-16	0.40	1.624534
29-Apr-16	0.38	1.603118
30-Apr-16	0.37	1.581989
1-May-16	0.36	1.561151
2-May-16	0.34	1.540611
3-May-16	0.33	1.520376
4-May-16	0.32	1.500452
5-May-16	0.31	1.480843
6-May-16	0.29	1.461557
7-May-16	0.28	1.442598
8-May-16	0.27	1.423973
9-May-16	0.26	1.405686
10-May-16	0.25	1.387744
11-May-16	0.24	1.370152
12-May-16	0.23	1.352914
13-May-16	0.21	1.336037
14-May-16	0.20	1.319524
15-May-16	0.19	1.303381
16-May-16	0.18	1.287613
17-May-16	0.17	1.272225
18-May-16	0.16	1.25722
19-May-16	0.15	1.242603
20-May-16	0.15	1.228379
21-May-16	0.14	1.214552
22-May-16	0.13	1.201126
23-May-16	0.12	1.188105
24-May-16	0.11	1.175493
25-May-16	0.10	1.163293
26-May-16	0.10	1.151509
27-May-16	0.09	1.140145
28-May-16	0.08	1.129204
29-May-16	0.08	1.118689
30-May-16	0.07	1.108604
31-May-16	0.06	1.098951
1-Jun-16	0.06	1.089733
2-Jun-16	0.05	1.080954
3-Jun-16	0.05	1.072614

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4-Jun-16	0.04	1.064718
5-Jun-16	0.04	1.057267
6-Jun-16	0.03	1.050264
7-Jun-16	0.03	1.04371
8-Jun-16	0.02	1.037608
9-Jun-16	0.02	1.03196
10-Jun-16	0.02	1.026766
11-Jun-16	0.01	1.022029
12-Jun-16	0.01	1.01775
13-Jun-16	0.01	1.01393
14-Jun-16	0.01	1.010571
15-Jun-16	0.00	1.007673
16-Jun-16	0.00	1.005238
17-Jun-16	0.00	1.003265
18-Jun-16	0.00	1.001756
19-Jun-16	0.00	1.000711
20-Jun-16	0.00	1.000131
21-Jun-16	0.00	1.000015
22-Jun-16	0.00	1.000363
23-Jun-16	0.00	1.001176
24-Jun-16	0.00	1.002453
25-Jun-16	0.00	1.004194
26-Jun-16	0.00	1.006398
27-Jun-16	0.01	1.009065
28-Jun-16	0.01	1.012193
29-Jun-16	0.01	1.015783
30-Jun-16	0.01	1.019832
1-Jul-16	0.02	1.02434
2-Jul-16	0.02	1.029306
3-Jul-16	0.02	1.034727
4-Jul-16	0.03	1.040603
5-Jul-16	0.03	1.046931
6-Jul-16	0.03	1.053709
7-Jul-16	0.04	1.060937
8-Jul-16	0.04	1.068611
9-Jul-16	0.05	1.076729
10-Jul-16	0.05	1.085289
11-Jul-16	0.06	1.094288
12-Jul-16	0.07	1.103723
13-Jul-16	0.07	1.113593
14-Jul-16	0.08	1.123893
15-Jul-16	0.09	1.134622
16-Jul-16	0.09	1.145774
17-Jul-16	0.10	1.157349
18-Jul-16	0.11	1.169341
19-Jul-16	0.12	1.181747
20-Jul-16	0.12	1.194565
21-Jul-16	0.13	1.207789
22-Jul-16	0.14	1.221416
23-Jul-16	0.15	1.235442
24-Jul-16	0.16	1.249863
25-Jul-16	0.17	1.264674
26-Jul-16	0.18	1.279871
27-Jul-16	0.19	1.29545
28-Jul-16	0.20	1.311406
29-Jul-16	0.21	1.327734
30-Jul-16	0.22	1.344443
31-Jul-16	0.23	1.361488

Appendix C

1-Aug-16	0.24	1.378904
2-Aug-16	0.25	1.396672
3-Aug-16	0.26	1.414787
4-Aug-16	0.28	1.433243
5-Aug-16	0.29	1.452036
6-Aug-16	0.30	1.471159
7-Aug-16	0.31	1.490607
8-Aug-16	0.33	1.510375
9-Aug-16	0.34	1.530455
10-Aug-16	0.35	1.550843
11-Aug-16	0.36	1.571533
12-Aug-16	0.38	1.592517
13-Aug-16	0.39	1.613791
14-Aug-16	0.41	1.635347
15-Aug-16	0.42	1.657179
16-Aug-16	0.43	1.679282
17-Aug-16	0.45	1.701647
18-Aug-16	0.46	1.724269
19-Aug-16	0.48	1.747141
20-Aug-16	0.49	1.770257
21-Aug-16	0.51	1.793608
22-Aug-16	0.52	1.817189
23-Aug-16	0.54	1.840992
24-Aug-16	0.55	1.865011
25-Aug-16	0.57	1.889238
26-Aug-16	0.58	1.913666
27-Aug-16	0.60	1.938287
28-Aug-16	0.61	1.963095
29-Aug-16	0.63	1.988083
30-Aug-16	0.65	2.013242
31-Aug-16	0.66	2.038565
1-Sep-16	0.68	2.064046
2-Sep-16	0.70	2.089675
3-Sep-16	0.71	2.115446
4-Sep-16	0.73	2.141351
5-Sep-16	0.74	2.167383
6-Sep-16	0.76	2.193533
7-Sep-16	0.78	2.219794
8-Sep-16	0.79	2.246158
9-Sep-16	0.81	2.272617
10-Sep-16	0.83	2.299164
11-Sep-16	0.85	2.32579
12-Sep-16	0.86	2.352488
13-Sep-16	0.88	2.37925
14-Sep-16	0.90	2.406067
15-Sep-16	0.91	2.432933
16-Sep-16	0.93	2.459838
17-Sep-16	0.95	2.486776
18-Sep-16	0.97	2.513737
19-Sep-16	0.98	2.540715
20-Sep-16	1.00	2.5677
21-Sep-16	1.02	2.594685
22-Sep-16	1.03	2.621663
23-Sep-16	1.05	2.648624
24-Sep-16	1.07	2.675562
25-Sep-16	1.09	2.702467
26-Sep-16	1.10	2.729333
27-Sep-16	1.12	2.75615

Appendix C

28-Sep-16	1.14	2.782912
29-Sep-16	1.15	2.80961
30-Sep-16	1.17	2.836236
1-Oct-16	1.19	2.862783
2-Oct-16	1.21	2.889242
3-Oct-16	1.22	2.915606
4-Oct-16	1.24	2.941867
5-Oct-16	1.26	2.968017
6-Oct-16	1.27	2.994049
7-Oct-16	1.29	3.019954
8-Oct-16	1.30	3.045725
9-Oct-16	1.32	3.071354
10-Oct-16	1.34	3.096835
11-Oct-16	1.35	3.122158
12-Oct-16	1.37	3.147317
13-Oct-16	1.39	3.172305
14-Oct-16	1.40	3.197113
15-Oct-16	1.42	3.221734
16-Oct-16	1.43	3.246162
17-Oct-16	1.45	3.270389
18-Oct-16	1.46	3.294408
19-Oct-16	1.48	3.318211
20-Oct-16	1.49	3.341792
21-Oct-16	1.51	3.365143
22-Oct-16	1.52	3.388259
23-Oct-16	1.54	3.411131
24-Oct-16	1.55	3.433753
25-Oct-16	1.57	3.456118
26-Oct-16	1.58	3.478221
27-Oct-16	1.59	3.500053
28-Oct-16	1.61	3.521609
29-Oct-16	1.62	3.542883
30-Oct-16	1.64	3.563867
31-Oct-16	1.65	3.584557
1-Nov-16	1.66	3.604945
2-Nov-16	1.67	3.625025
3-Nov-16	1.69	3.644793
4-Nov-16	1.70	3.664241
5-Nov-16	1.71	3.683364
6-Nov-16	1.72	3.702157
7-Nov-16	1.74	3.720613
8-Nov-16	1.75	3.738728
9-Nov-16	1.76	3.756496
10-Nov-16	1.77	3.773912
11-Nov-16	1.78	3.79097
12-Nov-16	1.79	3.807666
13-Nov-16	1.80	3.823994
14-Nov-16	1.81	3.83995
15-Nov-16	1.82	3.855529
16-Nov-16	1.83	3.870726
17-Nov-16	1.84	3.885537
18-Nov-16	1.85	3.899958
19-Nov-16	1.86	3.913984
20-Nov-16	1.87	3.927611
21-Nov-16	1.88	3.940835
22-Nov-16	1.88	3.953653
23-Nov-16	1.89	3.966059
24-Nov-16	1.90	3.978051

Appendix C

25-Nov-16	1.91	3.989626
26-Nov-16	1.91	4.000778
27-Nov-16	1.92	4.011507
28-Nov-16	1.93	4.021807
29-Nov-16	1.93	4.031677
30-Nov-16	1.94	4.041112
1-Dec-16	1.95	4.050111
2-Dec-16	1.95	4.058671
3-Dec-16	1.96	4.066789
4-Dec-16	1.96	4.074463
5-Dec-16	1.97	4.081691
6-Dec-16	1.97	4.088469
7-Dec-16	1.97	4.094797
8-Dec-16	1.98	4.100673
9-Dec-16	1.98	4.106094
10-Dec-16	1.98	4.11106
11-Dec-16	1.99	4.115568
12-Dec-16	1.99	4.119617
13-Dec-16	1.99	4.123207
14-Dec-16	1.99	4.126335
15-Dec-16	2.00	4.129002
16-Dec-16	2.00	4.131206
17-Dec-16	2.00	4.132947
18-Dec-16	2.00	4.134224
19-Dec-16	2.00	4.135037
20-Dec-16	2.00	4.135385
21-Dec-16	2.00	4.135269
22-Dec-16	2.00	4.134689
23-Dec-16	2.00	4.133644
24-Dec-16	2.00	4.132135
25-Dec-16	2.00	4.130162
26-Dec-16	2.00	4.127727
27-Dec-16	1.99	4.124829
28-Dec-16	1.99	4.12147
29-Dec-16	1.99	4.11765
30-Dec-16	1.99	4.113371
31-Dec-16	1.98	4.108634
1-Jan-17	1.98	4.10344
2-Jan-17	1.98	4.097792
3-Jan-17	1.97	4.09169
4-Jan-17	1.97	4.085136
5-Jan-17	1.96	4.078133
6-Jan-17	1.96	4.070682
7-Jan-17	1.95	4.062786
8-Jan-17	1.95	4.054446
9-Jan-17	1.94	4.045667
10-Jan-17	1.94	4.036449
11-Jan-17	1.93	4.026796
12-Jan-17	1.92	4.016711
13-Jan-17	1.92	4.006196
14-Jan-17	1.91	3.995255
15-Jan-17	1.90	3.983891
16-Jan-17	1.90	3.972107
17-Jan-17	1.89	3.959907
18-Jan-17	1.88	3.947295
19-Jan-17	1.87	3.934274
20-Jan-17	1.86	3.920848
21-Jan-17	1.85	3.907021

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22-Jan-17	1.85	3.892797
23-Jan-17	1.84	3.87818
24-Jan-17	1.83	3.863175
25-Jan-17	1.82	3.847787
26-Jan-17	1.81	3.832019
27-Jan-17	1.80	3.815876
28-Jan-17	1.79	3.799363
29-Jan-17	1.77	3.782486
30-Jan-17	1.76	3.765248
31-Jan-17	1.75	3.747656
1-Feb-17	1.74	3.729714
2-Feb-17	1.73	3.711427
3-Feb-17	1.72	3.692802
4-Feb-17	1.71	3.673843
5-Feb-17	1.69	3.654557
6-Feb-17	1.68	3.634948
7-Feb-17	1.67	3.615024
8-Feb-17	1.66	3.594789
9-Feb-17	1.64	3.574249
10-Feb-17	1.63	3.553411
11-Feb-17	1.62	3.532282
12-Feb-17	1.60	3.510866
13-Feb-17	1.59	3.489171
14-Feb-17	1.57	3.467203
15-Feb-17	1.56	3.444968
16-Feb-17	1.55	3.422473
17-Feb-17	1.53	3.399725
18-Feb-17	1.52	3.376731
19-Feb-17	1.50	3.353497
20-Feb-17	1.49	3.33003
21-Feb-17	1.47	3.306337
22-Feb-17	1.46	3.282425
23-Feb-17	1.44	3.258301
24-Feb-17	1.43	3.233973
25-Feb-17	1.41	3.209447
26-Feb-17	1.39	3.184731
27-Feb-17	1.38	3.159833
28-Feb-17	1.36	3.134759
1-Mar-17	1.35	3.109516
2-Mar-17	1.33	3.084114
3-Mar-17	1.31	3.058558
4-Mar-17	1.30	3.032857
5-Mar-17	1.28	3.007018
6-Mar-17	1.26	2.981048
7-Mar-17	1.25	2.954957
8-Mar-17	1.23	2.92875
9-Mar-17	1.21	2.902437
10-Mar-17	1.20	2.876024
11-Mar-17	1.18	2.84952
12-Mar-17	1.16	2.822933
13-Mar-17	1.15	2.796269
14-Mar-17	1.13	2.769539
15-Mar-17	1.11	2.742748
16-Mar-17	1.09	2.715905
17-Mar-17	1.08	2.689019
18-Mar-17	1.06	2.662096
19-Mar-17	1.04	2.635146
20-Mar-17	1.03	2.608176

Appendix C

21-Mar-17	1.01	2.581193
22-Mar-17	0.99	2.554207
23-Mar-17	0.97	2.527224
24-Mar-17	0.96	2.500254
25-Mar-17	0.94	2.473304
26-Mar-17	0.92	2.446381
27-Mar-17	0.91	2.419495
28-Mar-17	0.89	2.392652
29-Mar-17	0.87	2.365861
30-Mar-17	0.85	2.339131
31-Mar-17	0.84	2.312467
1-Apr-17	0.82	2.28588
2-Apr-17	0.80	2.259376
3-Apr-17	0.79	2.232963
4-Apr-17	0.77	2.20665
5-Apr-17	0.75	2.180443
6-Apr-17	0.74	2.154352
7-Apr-17	0.72	2.128382
8-Apr-17	0.70	2.102543
9-Apr-17	0.69	2.076842
10-Apr-17	0.67	2.051286
11-Apr-17	0.65	2.025884
12-Apr-17	0.64	2.000641
13-Apr-17	0.62	1.975567
14-Apr-17	0.61	1.950669
15-Apr-17	0.59	1.925953
16-Apr-17	0.57	1.901427
17-Apr-17	0.56	1.877099
18-Apr-17	0.54	1.852975
19-Apr-17	0.53	1.829063
20-Apr-17	0.51	1.80537
21-Apr-17	0.50	1.781903
22-Apr-17	0.48	1.758669
23-Apr-17	0.47	1.735675
24-Apr-17	0.45	1.712927
25-Apr-17	0.44	1.690432
26-Apr-17	0.43	1.668197
27-Apr-17	0.41	1.646229
28-Apr-17	0.40	1.624934
29-Apr-17	0.38	1.603118
30-Apr-17	0.37	1.581989
1-May-17	0.36	1.561151
2-May-17	0.34	1.540611
3-May-17	0.33	1.520376
4-May-17	0.32	1.500452
5-May-17	0.31	1.480843
6-May-17	0.29	1.461557
7-May-17	0.28	1.442598
8-May-17	0.27	1.423973
9-May-17	0.26	1.405686
10-May-17	0.25	1.387744
11-May-17	0.24	1.370152
12-May-17	0.23	1.352914
13-May-17	0.21	1.336037
14-May-17	0.20	1.319524
15-May-17	0.19	1.303381
16-May-17	0.18	1.287613
17-May-17	0.17	1.272225

Appendix C

18-May-17	0.16	1 25722
19-May-17	0.15	1.242603
20-May-17	0.15	1.228379
21-May-17	0.14	1.214552
22-May-17	0.13	1.201126
23-May-17	0.12	1.188105
24-May-17	0.11	1.175493
25-May-17	0.10	1.163293
26-May-17	0.10	1.151509
27-May-17	0.09	1.140145
28-May-17	0.08	1.129204
29-May-17	0.08	1.118689
30-May-17	0.07	1.108604
31-May-17	0.06	1.098951
1-Jun-17	0.06	1.089733
2-Jun-17	0.05	1.080954
3-Jun-17	0.05	1.072614
4-Jun-17	0.04	1.064718
5-Jun-17	0.04	1.057267
6-Jun-17	0.03	1.050264
7-Jun-17	0.03	1 04371
8-Jun-17	0.02	1.037608
9-Jun-17	0.02	1 03196
10-Jun-17	0.02	1.026766
11-Jun-17	0.01	1.022029
12-Jun-17	0.01	1 01775
13-Jun-17	0.01	1 01393
14-Jun-17	0.01	1.010571
15-Jun-17	0.00	1.007673
16-Jun-17	0.00	1.005238
17-Jun-17	0.00	1.003265
18-Jun-17	0.00	1.001756
19-Jun-17	0.00	1.000711
20-Jun-17	0.00	1.000131
21-Jun-17	0.00	1.000015
22-Jun-17	0.00	1.000363
23-Jun-17	0.00	1.001176
24-Jun-17	0.00	1.002453
25-Jun-17	0.00	1.004194
26-Jun-17	0.00	1.006398
27-Jun-17	0.01	1.009065
28-Jun-17	0.01	1.012193
29-Jun-17	0.01	1.015783
30-Jun-17	0.01	1.019832
1-Jul-17	0.02	1 02434
2-Jul-17	0.02	1.029306
3-Jul-17	0.02	1.034727
4-Jul-17	0.03	1.040603
5-Jul-17	0.03	1.046931
6-Jul-17	0.03	1.053709
7-Jul-17	0.04	1.060937
8-Jul-17	0.04	1.068611
9-Jul-17	0.05	1.076729
10-Jul-17	0.05	1.085289
11-Jul-17	0.06	1.094288
12-Jul-17	0.07	1.103723
13-Jul-17	0.07	1.113593
14-Jul-17	0.08	1.123893

Appendix C

15-Jul-17	0.09	1.134622
16-Jul-17	0.09	1.145774
17-Jul-17	0.10	1.157349
18-Jul-17	0.11	1.169341
19-Jul-17	0.12	1.181747
20-Jul-17	0.12	1.194565
21-Jul-17	0.13	1.207789
22-Jul-17	0.14	1.221416
23-Jul-17	0.15	1.235442
24-Jul-17	0.16	1.249863
25-Jul-17	0.17	1.264674
26-Jul-17	0.18	1.279871
27-Jul-17	0.19	1.29545
28-Jul-17	0.20	1.311406
29-Jul-17	0.21	1.327734
30-Jul-17	0.22	1.34443
31-Jul-17	0.23	1.361488
1-Aug-17	0.24	1.378904
2-Aug-17	0.25	1.396672
3-Aug-17	0.26	1.414787
4-Aug-17	0.28	1.433243
5-Aug-17	0.29	1.452036
6-Aug-17	0.30	1.471159
7-Aug-17	0.31	1.490607
8-Aug-17	0.33	1.510375
9-Aug-17	0.34	1.530455
10-Aug-17	0.35	1.550843
11-Aug-17	0.36	1.571533
12-Aug-17	0.38	1.592517
13-Aug-17	0.39	1.613791
14-Aug-17	0.41	1.635347
15-Aug-17	0.42	1.657179
16-Aug-17	0.43	1.679282
17-Aug-17	0.45	1.701647
18-Aug-17	0.46	1.724269
19-Aug-17	0.48	1.747141
20-Aug-17	0.49	1.770257
21-Aug-17	0.51	1.793608
22-Aug-17	0.52	1.817189
23-Aug-17	0.54	1.840992
24-Aug-17	0.55	1.865011
25-Aug-17	0.57	1.889238
26-Aug-17	0.58	1.913666
27-Aug-17	0.60	1.938287
28-Aug-17	0.61	1.963095
29-Aug-17	0.63	1.988083
30-Aug-17	0.65	2.013242
31-Aug-17	0.66	2.038565
1-Sep-17	0.68	2.064046
2-Sep-17	0.70	2.089675
3-Sep-17	0.71	2.115446
4-Sep-17	0.73	2.141351
5-Sep-17	0.74	2.167383
6-Sep-17	0.76	2.193533
7-Sep-17	0.78	2.219794
8-Sep-17	0.79	2.246158
9-Sep-17	0.81	2.272617
10-Sep-17	0.83	2.299164

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11-Sep-17	0.85	2 32579
12-Sep-17	0.86	2.352488
13-Sep-17	0.88	2 37925
14-Sep-17	0.90	2.406067
15-Sep-17	0.91	2.432933
16-Sep-17	0.93	2.459838
17-Sep-17	0.95	2.486776
18-Sep-17	0.97	2.513737
19-Sep-17	0.98	2.540715
20-Sep-17	1.00	2.5677
21-Sep-17	1.02	2.594685
22-Sep-17	1.03	2.621663
23-Sep-17	1.05	2.648624
24-Sep-17	1.07	2.675562
25-Sep-17	1.09	2.702467
26-Sep-17	1.10	2.729333
27-Sep-17	1.12	2.75615
28-Sep-17	1.14	2.782912
29-Sep-17	1.15	2 80961
30-Sep-17	1.17	2.836236
1-Oct-17	1.19	2.862783
2-Oct-17	1.21	2.889242
3-Oct-17	1.22	2.915606
4-Oct-17	1.24	2.941867
5-Oct-17	1.26	2.968017
6-Oct-17	1.27	2.994049
7-Oct-17	1.29	3.019954
8-Oct-17	1.30	3.045725
9-Oct-17	1.32	3.071354
10-Oct-17	1.34	3.096835
11-Oct-17	1.35	3.122158
12-Oct-17	1.37	3.147317
13-Oct-17	1.39	3.172305
14-Oct-17	1.40	3.197113
15-Oct-17	1.42	3.221734
16-Oct-17	1.43	3.246162
17-Oct-17	1.45	3.270389
18-Oct-17	1.46	3.294408
19-Oct-17	1.48	3.318211
20-Oct-17	1.49	3.341792
21-Oct-17	1.51	3.365143
22-Oct-17	1.52	3.388259
23-Oct-17	1.54	3.411131
24-Oct-17	1.55	3.433753
25-Oct-17	1.57	3.456118
26-Oct-17	1.58	3.478221
27-Oct-17	1.59	3.500053
28-Oct-17	1.61	3.521609
29-Oct-17	1.62	3.542883
30-Oct-17	1.64	3.563867
31-Oct-17	1.65	3.584557
1-Nov-17	1.66	3.604945
2-Nov-17	1.67	3.625025
3-Nov-17	1.69	3.644793
4-Nov-17	1.70	3.664241
5-Nov-17	1.71	3.683364
6-Nov-17	1.72	3.702157
7-Nov-17	1.74	3.720613

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8-Nov-17	1.75	3.738728
9-Nov-17	1.76	3.756496
10-Nov-17	1.77	3.773912
11-Nov-17	1.78	3.79097
12-Nov-17	1.79	3.807666
13-Nov-17	1.80	3.823994
14-Nov-17	1.81	3.83995
15-Nov-17	1.82	3.855529
16-Nov-17	1.83	3.870726
17-Nov-17	1.84	3.885537
18-Nov-17	1.85	3.899958
19-Nov-17	1.86	3.913984
20-Nov-17	1.87	3.927611
21-Nov-17	1.88	3.940835
22-Nov-17	1.88	3.953653
23-Nov-17	1.89	3.966059
24-Nov-17	1.90	3.978051
25-Nov-17	1.91	3.989626
26-Nov-17	1.91	4.000778
27-Nov-17	1.92	4.011507
28-Nov-17	1.93	4.021807
29-Nov-17	1.93	4.031677
30-Nov-17	1.94	4.041112
1-Dec-17	1.95	4.050111
2-Dec-17	1.95	4.058671
3-Dec-17	1.96	4.066789
4-Dec-17	1.96	4.074463
5-Dec-17	1.97	4.081691
6-Dec-17	1.97	4.088469
7-Dec-17	1.97	4.094797
8-Dec-17	1.98	4.100673
9-Dec-17	1.98	4.106094
10-Dec-17	1.98	4.11106
11-Dec-17	1.99	4.115568
12-Dec-17	1.99	4.119617
13-Dec-17	1.99	4.123207
14-Dec-17	1.99	4.126335
15-Dec-17	2.00	4.129002
16-Dec-17	2.00	4.131206
17-Dec-17	2.00	4.132947
18-Dec-17	2.00	4.134224
19-Dec-17	2.00	4.135037
20-Dec-17	2.00	4.135385
21-Dec-17	2.00	4.135269
22-Dec-17	2.00	4.134689
23-Dec-17	2.00	4.133644
24-Dec-17	2.00	4.132135
25-Dec-17	2.00	4.130162
26-Dec-17	2.00	4.127727
27-Dec-17	1.99	4.124829
28-Dec-17	1.99	4.12147

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29-Dec-17	1.99	4.11765
30-Dec-17	1.99	4.113371
31-Dec-17	1.98	4.108634
1-Jan-18	1.98	4.10344
2-Jan-18	1.98	4.097792
3-Jan-18	1.97	4.09169
4-Jan-18	1.97	4.085136
5-Jan-18	1.96	4.078133
6-Jan-18	1.96	4.070682
7-Jan-18	1.95	4.062786
8-Jan-18	1.95	4.054446
9-Jan-18	1.94	4.045667
10-Jan-18	1.94	4.036449
11-Jan-18	1.93	4.026796
12-Jan-18	1.92	4.016711
13-Jan-18	1.92	4.006196
14-Jan-18	1.91	3.995255
15-Jan-18	1.90	3.983891
16-Jan-18	1.90	3.972107
17-Jan-18	1.89	3.959907
18-Jan-18	1.88	3.947295
19-Jan-18	1.87	3.934274
20-Jan-18	1.86	3.920848
21-Jan-18	1.85	3.907021
22-Jan-18	1.85	3.892797
23-Jan-18	1.84	3.87818
24-Jan-18	1.83	3.863175
25-Jan-18	1.82	3.847787
26-Jan-18	1.81	3.832019
27-Jan-18	1.80	3.815876
28-Jan-18	1.79	3.799363
29-Jan-18	1.77	3.782486
30-Jan-18	1.76	3.765248
31-Jan-18	1.75	3.747656
1-Feb-18	1.74	3.729714
2-Feb-18	1.73	3.711427
3-Feb-18	1.72	3.692802
4-Feb-18	1.71	3.673843
5-Feb-18	1.69	3.654557
6-Feb-18	1.68	3.634948
7-Feb-18	1.67	3.615024
8-Feb-18	1.66	3.594789
9-Feb-18	1.64	3.574249
10-Feb-18	1.63	3.553411
11-Feb-18	1.62	3.532282
12-Feb-18	1.60	3.510866
13-Feb-18	1.59	3.489171
14-Feb-18	1.57	3.467203
15-Feb-18	1.56	3.444968
16-Feb-18	1.55	3.422473
17-Feb-18	1.53	3.399725
18-Feb-18	1.52	3.376731
19-Feb-18	1.50	3.353497
20-Feb-18	1.49	3.33003
21-Feb-18	1.47	3.306337
22-Feb-18	1.46	3.282425
23-Feb-18	1.44	3.258301
24-Feb-18	1.43	3.233973

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25-Feb-18	1.41	3.209447
26-Feb-18	1.39	3.184731
27-Feb-18	1.38	3.159833
28-Feb-18	1.36	3.134759
1-Mar-18	1.35	3.109516
2-Mar-18	1.33	3.084114
3-Mar-18	1.31	3.058558
4-Mar-18	1.30	3.032857
5-Mar-18	1.28	3.007018
6-Mar-18	1.26	2.981048
7-Mar-18	1.25	2.954957
8-Mar-18	1.23	2.92875
9-Mar-18	1.21	2.902437
10-Mar-18	1.20	2.876024
11-Mar-18	1.18	2.84952
12-Mar-18	1.16	2.822933
13-Mar-18	1.15	2.796269
14-Mar-18	1.13	2.769539
15-Mar-18	1.11	2.742748
16-Mar-18	1.09	2.715905
17-Mar-18	1.08	2.689019
18-Mar-18	1.06	2.662096
19-Mar-18	1.04	2.635146
20-Mar-18	1.03	2.608176
21-Mar-18	1.01	2.581193
22-Mar-18	0.99	2.554207
23-Mar-18	0.97	2.527224
24-Mar-18	0.96	2.500254
25-Mar-18	0.94	2.473304
26-Mar-18	0.92	2.446381
27-Mar-18	0.91	2.419495

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28-Mar-18	0.89	2.392652
29-Mar-18	0.87	2.365861
30-Mar-18	0.85	2.339131
31-Mar-18	0.84	2.312467
1-Apr-18	0.82	2.28588
2-Apr-18	0.80	2.259376
3-Apr-18	0.79	2.232963
4-Apr-18	0.77	2.20665
5-Apr-18	0.75	2.180443
6-Apr-18	0.74	2.154352
7-Apr-18	0.72	2.128382
8-Apr-18	0.70	2.102543
9-Apr-18	0.69	2.076842
10-Apr-18	0.67	2.051286
11-Apr-18	0.65	2.025884
12-Apr-18	0.64	2.000641
13-Apr-18	0.62	1.975567
14-Apr-18	0.61	1.950669
15-Apr-18	0.59	1.925953
16-Apr-18	0.57	1.901427
17-Apr-18	0.56	1.877099
18-Apr-18	0.54	1.852975
19-Apr-18	0.53	1.829063
20-Apr-18	0.51	1.80537
21-Apr-18	0.50	1.781903
22-Apr-18	0.48	1.758669
23-Apr-18	0.47	1.735675
24-Apr-18	0.45	1.712927
25-Apr-18	0.44	1.690432
26-Apr-18	0.43	1.668197
27-Apr-18	0.41	1.646229
28-Apr-18	0.40	1.624534
29-Apr-18	0.38	1.603118
30-Apr-18	0.37	1.581989
1-May-18	0.36	1.561151
2-May-18	0.34	1.540611
3-May-18	0.33	1.520376
4-May-18	0.32	1.500452
5-May-18	0.31	1.480843
6-May-18	0.29	1.461557
7-May-18	0.28	1.442598
8-May-18	0.27	1.423973
9-May-18	0.26	1.405686
10-May-18	0.25	1.387744
11-May-18	0.24	1.370152
12-May-18	0.23	1.352914
13-May-18	0.21	1.336037
14-May-18	0.20	1.319524
15-May-18	0.19	1.303381
16-May-18	0.18	1.287613
17-May-18	0.17	1.272225
18-May-18	0.16	1.25722
19-May-18	0.15	1.242603
20-May-18	0.15	1.228379
21-May-18	0.14	1.214552
22-May-18	0.13	1.201126
23-May-18	0.12	1.188105
24-May-18	0.11	1.175493

25-May-18	0.10	1.163293
26-May-18	0.10	1.151509
27-May-18	0.09	1.140145
28-May-18	0.08	1.129204
29-May-18	0.08	1.118689
30-May-18	0.07	1.108604
31-May-18	0.06	1.098951
		2.566896
		2 57